

## IMPORTANT NOTICE

Due to potential delays in receiving mail, this solicitation contains the provision at FAR 52.215-5 which authorizes facsimile proposals. Offerors are encouraged to use alternatives to the mail when submitting proposals.

|  |  |  |  |  |  |
|--|--|--|--|--|--|
| <b>SOLICITATION, OFFER AND AWARD</b>   |  | 1. THIS CONTRACT IS A RATED ORDER<br>UNDER DPAS (15 CFR 350) |  | RATING<br><b>DO</b>  | PAGE OF<br><b>1</b>   <b>26</b> PAGES  |
| 2. CONTRACT NO.  |  | 3. SOLICITATION NO.<br><b>N00173-02-R-LS02</b>               |  | 4. TYPE OF SOLICITATION<br><input type="checkbox"/> SEALED BID (IFB)<br><input checked="" type="checkbox"/> NEGOTIATED (RFP) | 5. DATE ISSUED<br><b>14 March 2002</b> |
| 7. ISSUED BY<br><b>CONTRACTING OFFICER<br/>NAVAL RESEARCH LABORATORY<br/>ATTN: CODE 3230.LS<br/>WASHINGTON DC 20375-5326</b> |  | 8. ADDRESS OFFER TO <i>(If other than Item 7)</i>            |  |  |  |

NOTE: In sealed bid solicitations "offer" and "offeror" mean "bid" and "bidder".

### SOLICITATION

9. Sealed offers in original and 2 copies for furnishing the supplies or services in the Schedule will be received at the place specified in Item 8, or if handcarried, in the depository located in Building 222, Room 115 until 4 PM local time 15 April 2002  
(Hour) (Date)

CAUTION - LATE Submissions, Modifications, and Withdrawals: See Section L, Provision No. 52.214-7 or 52.215-10. All offers are subject to all terms and conditions contained in this solicitation.

|                           |                                   |   |
|---------------------------|-----------------------------------|---|
| 10. FOR INFORMATION CALL: | A. NAME<br><b>Lisa A. Fleming</b> | B. TELEPHONE NO. <i>(Include area code) (NO COLLECT CALLS)</i><br><b>202-767-3739</b> |
|---------------------------|-----------------------------------|---|

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### OFFER *(Must be fully completed by offeror)*

NOTE: Item 12 does not apply if the solicitation includes the provisions at 52.214-16, Minimum Bid Acceptance Period.

12. In compliance with the above, the undersigned agrees, if this offer is accepted within \_\_\_\_\_ calendar days *(60 calendar days unless a different period is inserted by the offeror)* from the date for receipt of offers specified above, to furnish any or all items upon which prices are offered at the price set opposite each item, delivered at the designated point(s), within the time specified in the schedule.

|  |  |  |                       |  |                    |
|--|--|--|-----------------------|--|--------------------|
| 13. DISCOUNT FOR PROMPT PAYMENT  |  | 10 CALENDAR DAYS<br>%  | 20 CALENDAR DAYS<br>% | 30 CALENDAR DAYS<br>%  | CALENDAR DAYS<br>% |
| 14. ACKNOWLEDGMENT OF AMENDMENTS<br><i>(The offeror acknowledges receipt of amendments to the SOLICITATION for offerors and related documents numbered and dated:)</i> |  | AMENDMENT NO.  | DATE                  | AMENDMENT NO.  | DATE               |
| 15A. NAME AND ADDRESS OF OFFEROR   |  | CODE   | FACILITY              | 16. NAME AND TITLE OF PERSON AUTHORIZED TO SIGN OFFER <i>(Type or print)</i> |                    |
| 15B. TELEPHONE NO. <i>(Include area code)</i>  |  | 15C. CHECK IF REMITTANCE ADDRESS IS DIFFERENT FROM ABOVE - ENTER SUCH ADDRESS IN SCHEDULE.<br><input type="checkbox"/> |                       | 17. SIGNATURE  | 18. OFFER DATE     |

### AWARD *(To be completed by Government)*

|   |  |   |                                  |                |
|---|--|---|----------------------------------|----------------|
| 19. ACCEPTED AS TO ITEMS NUMBERED   |  | 20. AMOUNT  | 21. ACCOUNTING AND APPROPRIATION |                |
| 22. AUTHORITY FOR USING OTHER THAN FULL AND OPEN COMPETITION:<br><input type="checkbox"/> 10 U.S.C. 2304(c) ( ) <input type="checkbox"/> 41 U.S.C. 253(c) ( ) |  | 23. SUBMIT INVOICES TO ADDRESS SHOWN IN  ITEM<br><i>(4 copies unless otherwise specified)</i> |                                  |                |
| 24. ADMINISTERED BY <i>(If other than Item 7)</i>   |  | CODE  | 25. PAYMENT WILL BE MADE BY CODE |                |
| 26. NAME OF CONTRACTING OFFICER <i>(Type or print)</i>  |  | 27. UNITED STATES OF AMERICA<br><br><i>(Signature of Contracting Officer)</i>                 |                                  | 28. AWARD DATE |

IMPORTANT - Award will be made on this Form, or on Standard Form 26, or by other authorized official written notice.

**PART I - THE SCHEDULE**  
**SECTION B**  
**SUPPLIES OR SERVICES AND PRICES/COSTS**

**B-1 SUPPLIES/SERVICES AND COSTS**

| ITEM<br>NUMBER                             | SUPPLIES/SERVICES  | ESTIMATED<br>COST | FIXED<br>FEE | ESTIMATED COST<br>PLUS FIXED FEE |
|--|--|-------------------|--------------|----------------------------------|
| 0001                                       | The Contractor shall provide engineering, scientific, logistical and technical support in the areas of RDT&E, operation of advanced concept and prototype spacecraft, their payloads and their launch systems, airborne systems, and related innovative technology development | \$                | \$           | \$                               |
| 0002                                       | Data in accordance with Exhibit A (DD 1423)  | * NSP             | * NSP        | * NSP                            |
| <b>TOTAL ESTIMATED COST PLUS FIXED FEE</b> |  |                   | \$           | \$                               |

*\* Not Separately Priced*

**NOTICE TO OFFERORS:** In addition to inserting the estimated cost and fixed fee for the base year above, the estimated cost and fixed fee for each optional extension of the term of the contract are to be inserted in Section H.

**SECTION C**  
**DESCRIPTION/SPECIFICATIONS/STATEMENT OF WORK**

**C-1 STATEMENT OF WORK**

The work and services to be performed hereunder shall be subject to the requirements and standards contained in Attachment (1), Statement of Work, with Exhibit A, Contract Data Requirements List, and all other Attachments cited in Section J, which are incorporated by reference into Section C.

**C-2 REQUIREMENTS FOR ON-SITE CONTRACTORS**

For those portions of the work under this contract performed at any NRL site, the contractor shall comply with the Requirements for On-Site Contractors dated 19 October 2001 which are hereby incorporated by reference. The full text is available at <http://heron.nrl.navy.mil/contracts/home.htm>.

**C-3 SUBCONTRACTING PLAN**

Subcontracting Plan dated is hereby incorporated by reference and made a material part of this contract.

*(\*this provision will be included and completed at time of award, if applicable)*

**SECTION D  
PACKAGING AND MARKING****D-1 PACKAGING AND MARKING**

Preservation, packaging, packing and marking of all deliverable contract line items must conform to normal commercial packing standards to assure safe delivery at destination.

**SECTION E  
INSPECTION AND ACCEPTANCE****E-1 INSPECTION AND ACCEPTANCE CLAUSES INCORPORATED BY REFERENCE****FAR CLAUSE TITLE**

52.246-5 - Inspection Of Services - Cost Reimbursement (APR 1984)

**DFARS CLAUSE TITLE**

252.246-7000 - Material Inspection And Receiving Report (DEC 1991)

**E-2 INSPECTION AND ACCEPTANCE**

Inspection and acceptance of the final delivery will be accomplished by the Technical Manager (TM) or Contracting Officer Representative (COR) designated in Section G of this contract. Inspection and acceptance will be performed at the Naval Research Laboratory, Washington DC 20375-5320.

**SECTION F**  
**DELIVERIES OR PERFORMANCE**

**F-1 DELIVERIES OR PERFORMANCE CLAUSES INCORPORATED BY REFERENCE:**

**FAR CLAUSE    TITLE**

52.242-15    -    Stop-Work Order (AUG 1989) - Alternate I (APR 1984)  
52.247-34    -    F.O.B. Destination (NOV 1991)

**F-2 PERIOD AND PLACE OF PERFORMANCE**

- (a) The term of this contract is from date of contract award through twelve months thereafter with four options, each extending the contract term for an additional twelve months, if exercised.
- (b) The principal place of performance of this contract shall be at the Naval Research Laboratory, Washington DC.

**SECTION G**  
**CONTRACT ADMINISTRATION DATA**

**G-1 PROCURING OFFICE REPRESENTATIVE**

In order to expedite administration of the contract, the Administrative Contracting Officer (ACO) will direct inquiries to the appropriate office listed below. Please do not direct routine inquiries to the person listed in Item 20A on Standard Form 26.

Contract Matters- \*

Security Matters- \*

Safety Matters- \*

Patent Matters- \*

Release of Data- \*

The ACO will forward invention disclosures and reports directly to the Associate Counsel for Patents, Code 1008.2, Naval Research Laboratory, Washington DC 20375-5320. The Associate Counsel for Patents will return the reports along with a recommendation to the Administrative Contracting Officer. The Associate Counsel for Patents will represent the Contracting Officer with regard to invention reporting matters arising under this contract.

( \* To be completed at time of award)

**G-2 CONTRACTING OFFICER'S REPRESENTATIVE (COR) - FUNCTIONS AND LIMITATIONS**

\* is hereby designated the cognizant COR who will represent the Contracting Officer in the administration of technical details within the scope of this contract and inspection and acceptance. The COR is not otherwise authorized to make any representations or commitments of any kind on behalf of the Contracting Officer or the Government. The COR does not have the authority to alter the Contractor's obligations or change the specifications in the contract. If, as a result of technical discussions, it is desirable to alter contract obligations or statements of work, a modification must be issued in writing and signed by the Contracting Officer. The COR is responsible for reviewing the bills and charges submitted by the Contractor and informing the ACO of areas where exceptions are to be taken.

( \* To be completed at time of award)

**G-3 TECHNICAL DIRECTION MEMORANDUM (TDM)**

(a) For the purposes of this clause, technical direction includes the following:

- (1) Direction to the Contractor which shifts work emphasis between work areas or tasks, requires pursuit of certain lines of inquiry, fills in details or otherwise describes work which will accomplish the objectives described in the statement of work;
- (2) Guidelines to the Contractor which assist in interpretation of drawings, specifications or technical portions of work description.

(b) Technical instructions must be within the scope of work stated in the contract. Technical instructions may not be used to:

- (1) Assign additional work under the contract;
- (2) Direct a change as defined in the contract clause entitled "Changes";
- (3) Increase or decrease the estimated contract cost, the fixed fee, or the time required for contract performance; or
- (4) Change any of the terms, conditions or specifications of the contract

(c) The TDM shall be written by the Contracting Officer's Representative (COR), with the original given to the Contractor and a copy retained in the CORs file. Technical direction may be issued orally only in emergency situations. If technical direction is issued orally, a TDM must follow within two (2) working days from the date of the oral direction. Amendments, corrections, or changes to TDMs shall also be in written format and shall include all the information set forth in paragraph (e) below.

(d) A TDM shall be considered issued when the Government deposits it in the mail, or if transmitted by other means, when it is physically delivered to the contractor.

(e) TDMs shall include, but not be limited to, the following information:

- (1) Date of TDM,
- (2) Contract Number,
- (3) Reference to the relevant portion or item in the Statement of Work,
- (4) The specific technical direction or clarification, and
- (5) The signature of the COR.

(f) CORs shall retain all files containing TDMs for a period of two (2) years after the final contract completion date.

(g) The only individual authorized in any way to amend or modify any of the terms of this contract shall be the Contracting Officer. When, in the opinion of the Contractor, any technical direction calls for effort outside the scope of the contract or inconsistent with this special provision, the Contractor shall notify the Contracting Officer in writing within ten (10) working days after its receipt.

#### **G-4 SUBCONTRACTORS/CONSULTANTS**

(a) Advance notification or requests for consent pursuant to the contract clause entitled "Subcontracts" (FAR 52.244-2) shall be directed to the cognizant administrative contracting officer (ACO).

(b) The following subcontractors/consultants have been identified in the Contractor's proposal as necessary for performance of this contract:

Subcontractor/Consultant Name

Estimated Cost

*(Paragraph (b) will be included and filled in at time of award if subcontractor/consultants are proposed by the successful offeror)*

#### **G-5 NAPS 5252.232-9001 - SUBMISSION OF INVOICES (COST-REIMBURSEMENT, TIME-AND-MATERIALS, LABOR-HOUR, OR FIXED PRICE INCENTIVE (JUL 1992)**

(a) "Invoice" as used in this clause includes contractor requests for interim payments using public vouchers (SF 1034) but does not include contractor requests for progress payments under fixed price incentive contracts.

(b) The Contractor shall submit invoices and any necessary supporting documentation, in an original and 4 copies, to the contract auditor at the following address:

*(To be completed at time of award)*

unless delivery orders are applicable, in which case invoices will be segregated by individual order and submitted to the address specified in the order. In addition, an information copy shall be submitted to [See Section G for designated COR]. Following verification, the contract auditor will forward the invoice to the designated payment office for payment in the amount determined to be owing, in accordance with the applicable payment (and fee) clause(s) of this contract.

(c) Invoices requesting interim payments shall be submitted no more than once every two weeks, unless another time period is specified in the Payments clause of this contract. For indefinite delivery type contracts, interim payment invoices shall be submitted no more than once every two weeks for each delivery orders. There shall be a lapse of no more than 30 calendar days between performance and submission of an interim payment invoice.

(d) In addition to the information identified in the Prompt Payment clause herein, each invoice shall contain the following information, as applicable:

- (1) Contract line item number (CLIN)

- (2) Subline item number (SLIN)
- (3) Accounting Classification Reference Number (ACRN)
- (4) Payment terms
- (5) Procuring activity
- (6) Date supplies provided or services performed
- (7) Costs incurred and allowable under the contract
- (8) Vessel (e.g., ship, submarine or other craft) or system for which supply/service is provided
- (e) A DD Form 250, "Material Inspection and Receiving Report",
  - ☐ is required with each invoice submittal.
  - ☒ is required only with the final invoice.
  - ☐ is not required.
- (f) A Certificate of Performance
  - ☐ shall be provided with each invoice submittal.
  - ☒ is not required.
- (g) The Contractor's final invoice shall be identified as such, and shall list all other invoices (if any) previously tendered under this contract.
- (h) Cost of performance shall be segregated, accumulated and invoiced to the appropriate ACRN categories to the extent possible. When such segregation of costs by ACRN is not possible for invoices submitted with CLIN/SLINS with more than one ACRN, an allocation ratio shall be established in the same ratio as the obligations cited in the accounting data so that costs are allocated on a proportional basis.

#### **G-7 INCREMENTAL FUNDING**

Pursuant to the Limitation of Funds clause (FAR 52.232-22), the total amount allotted to this contract is \$\* and it is estimated that this amount is sufficient for contract performance through \*.

*(\*this provision will be included and completed at time of award, if applicable)*

#### **G-8 INFORMATIONAL SUBLINE ITEMS**

It is anticipated that the research and development services performed under this contract will be paid for from multiple sources of funds. Informational subline items will be established as necessary to identify each accounting citation classification.

#### **G-9 PAYMENT INSTRUCTIONS FOR MULTIPLE ACCOUNTING CLASSIFICATION CITATIONS (COST-REIMBURSEMENT)**

The purpose of these instructions is to permit the paying office to charge the accounting classification citations in the contract in a manner that reflects the performance of the contract. These instructions do not create any obligation on the part of the Government or the contractor nor do they in any way alter any obligation created by any other provision of the contract. Invoices should be paid from available ACRNs



in the following order:

- (a) ACRNs cited on the contractor's invoice.
- (b) On a proportional basis from any ACRNs assigned to funds which will cancel at the end of the current fiscal year.
- (c) The ACRN assigned to the following line of accounting:  
97X4930.NH4A 000 77777 0 000173 2F 000000 N00173Z45000.
- (d) If funds appropriated in more than one fiscal year are allotted to the contract, the ACRN assigned to the oldest allotment of funds.
- (e) On a proportional basis from all ACRNs assigned to allotments of funds appropriated in a single fiscal year.

## SECTION H SPECIAL CONTRACT REQUIREMENTS

### H-1 TYPE OF CONTRACT

This is a \*

*(\*To be completed at time of award)*

### H-2 ONR 5252.237-9705 - KEY PERSONNEL (DEC 88)

- (a) The Contractor agrees to assign to the contract tasks those persons whose resumes were submitted with its proposal and who are necessary to fulfill the requirements of the contract as "key personnel". No substitutions may be made except in accordance with this clause.
- (b) The Contractor understands that during the first ninety (90) days of the contract performance period, no personnel substitutions will be permitted unless these substitutions are unavoidable because of the incumbent's sudden illness, death or termination of employment. In any of these events, the Contractor shall promptly notify the Contracting Officer and provide the information described in paragraph (c) below. After the initial ninety (90) day period the Contractor must submit to the Contracting Officer all proposed substitutions, in writing, at least fifteen (15) days in advance (thirty (30) days if security clearance must be obtained) of any proposed substitution and provide the information required by paragraph (c) below.
- (c) Any request for substitution must include a detailed explanation of the circumstances necessitating the proposed substitution, a resume for the proposed substitute, and any other information requested by the Contracting Officer. Any proposed substitute must have qualifications equal to or superior to the qualifications of the incumbent. The Contracting Officer or his/her authorized representative will evaluate such requests and promptly notify the Contractor of his/her approval or disapproval thereof.
- (d) In the event that any of the identified key personnel cease to perform under the contract and the substitute is disapproved, the contract may be immediately terminated in accordance with the Termination clause of the contract.

The following are identified as key personnel: \*

Sr. Program Manager  
Principal Scientist, Theoretical/Experimental Physics  
Sr. Systems Eng., Communications  
Sr. Systems Eng., Software  
Systems Eng., Terrestrial Systems  
Sr. Systems Eng., Guidance, Navigation, and Controls

*(\*To be completed at time of award)*

### **H-3 ONR 5252.216-9706 - LEVEL OF EFFORT (DEC 88)**

(a) The Contractor agrees to provide the total level of effort specified in the next sentence in performance of the work described in this contract. The total level of effort for performance of this contract shall be 47,720 total hours of direct labor for the base year and 47,720 total hours of direct labor for each of the option years, if exercised. This amount includes subcontractor direct labor for those subcontractors specifically identified in the Contractor's proposal as having hours included in the proposed level of effort. A breakdown of labor categories and hours is set forth in paragraph (k) below.

(b) The level of effort for this contract shall be expended at an average rate of 3,976 hours per month. It is understood and agreed that the rate of hours per month may fluctuate in pursuit of the technical objective, provided such fluctuation does not result in the use of the total hours of effort prior to the expiration of the term of the contract.

(c) The Contractor is required to notify the Contracting Officer when any of the following situations occur, or are anticipated to occur: If during any three consecutive months the monthly average is exceeded by 25% or, if at any time it is forecast that during the last three months of the contract less than 50% of the monthly average will be used during any given month; or, when 85% of the total level of effort has been expended.

(d) If, during the term of the contract, the Contractor finds it necessary to accelerate the expenditure of direct labor to such an extent that the total hours of effort specified would be used prior to the expiration of the term, the Contractor shall notify the Contracting Officer in writing, setting forth the acceleration required, the probable benefits which would result, and an offer to undertake the acceleration at no increase in the estimated cost or fixed fee together with an offer setting forth a proposed level of effort, cost breakdown, and proposed fixed fee for continuation of the work until expiration of the term hereof. The offer shall provide that the work proposed will be subject to the terms and conditions of this contract and any additions or changes required by then current law, regulations, or directives, and that the offer, with a written notice of acceptance by the Contracting Officer, shall constitute a binding contract. The Contractor shall not accelerate any effort until receipt of such written approval by the Contracting Officer. Any agreement to accelerate will be formalized by contract modification.

(e) The Contracting Officer may, by written order, direct the Contractor to accelerate the expenditure of direct labor such that the total hours of effort specified in paragraph (a) above would be used prior to the expiration of the term. This order shall specify the acceleration required and the resulting revised term. The Contractor shall acknowledge this order within five days of receipt.

(f) If the total level of effort specified in paragraph (a) above is not provided by the Contractor during the term of this contract, the Contracting Officer shall either (i) reduce the fixed fee of this contract as follows:

Fee Reduction = Fixed Fee X  $\frac{\text{Required LOE Hours} - \text{Expended LOE Hours}}{\text{Required LOE Hours}}$

Required LOE Hours

or (ii) subject to the provisions of the clause of this contract entitled "Limitation of Cost," require the Contractor to continue to perform the work until the total number of hours of direct labor specified in paragraph (a) shall have been expended, at no increase in the fixed fee of this contract.

(g) In the event the government fails to fully fund the contract in a timely manner, the term of the contract may be extended accordingly with no change to cost or fee. If the government fails to fully fund the contract, the fee will be adjusted in direct proportion to that effort which was performed.

(h) Notwithstanding any of the provisions in the above paragraphs, the Contractor may furnish hours up to five percent in excess of the total hours specified in paragraph (a) above, provided that the additional effort is furnished within the term hereof, and provided further that no increase in the estimated cost or fixed fee is required, and no adjustment in the fixed fee shall be made provided that the Contractor has delivered at least 95% of the level of effort required in paragraph (a) above.

(i) It is understood that the mix of labor categories provided by the Contractor under the contract, as well as the distribution of effort among those categories, may vary considerably from the initial mix and distribution of effort which was estimated by the government or proposed by the Contractor.

(j) Nothing herein shall be construed to alter or waive any of the rights or obligations of either party pursuant to the Clause entitled "Limitation of Costs" or "Limitation of Funds," either of which clauses as incorporated herein applies to this contract.

(k) The anticipated breakdown by labor category of the total level of effort is as follows:

| <u>Labor Category</u>                                 | <u>Hours</u> |
|---|--------------|
| Sr. Program Manager                                   | 16,200       |
| Principal Scientist, Theoretical/Experimental Physics | 24,000       |
| Sr. Systems Eng., Communications                      | 14,600       |
| Sr. Systems Eng., Software                            | 14,600       |
| Systems Eng., Terrestrial Systems                     | 14,600       |
| Sr. Systems Eng., Guidance, Navigation, and Controls  | 24,000       |
| Eng., Digital Hardware or Software                    | 24,000       |
| Eng., General Design and Support                      | 24,000       |
| Project Analyst                                       | 14,600       |
| Technical Writer/Editor                               | 20,000       |
| Sr. Computer Graphics Artist                          | 24,000       |
| Administrative, Clerical, and Graphics Support        | 24,000       |

*Please note that the above total level of effort is based on all four options being exercised.*

#### **H-4 ONR 5252.235-9714 - REPORT PREPARATION (FEB 97)**

Scientific or technical reports prepared by the Contractor and deliverable under the terms of this contract will be prepared in accordance with format requirements contained in ANSI/NISO Z39.18-1995, "Scientific and Technical Reports: Elements, Organization, and Design." [NOTE: ANSI Z39.18 may be obtained from NISO Press Fulfillment Center, P. O. Box 338, Oxon Hill, MD. 20750-0338. Telephone 1-

800-282-6476]

**H-5 ELECTRONIC AND INFORMATION TECHNOLOGY (EIT)**

In accordance with Section 508 of the Rehabilitation Act of 1973 (29 U.S.C. 794d), all EIT supplies and services provided under this contract must comply with the applicable accessibility standards issued by the Architectural and Transportation Barriers Compliance Board at 36 CFR part 1194 (see FAR Subpart 39.2). Electronic and information technology (EIT) is defined at FAR 2.101.

**H-6 OPTION TO EXTEND THE TERM OF THE CONTRACT**

This contract shall be renewable at the unilateral option of the Government by the Contracting Officer giving written notice of renewal to the Contractor within the existing term of the contract. The Government may exercise its option to renew the contract a total of four times and each such renewal shall extend the term of the contract by twelve (12) months. The Contractor agrees that performance under each such renewal shall be accomplished in accordance with all of the terms and conditions of this contract and at the estimated cost and fixed fee set forth below:

**First Option**

|                                |    |
|--------------------------------|----|
| Estimated Cost:                | \$ |
| Fixed Fee:                     | \$ |
| Estimated Cost Plus Fixed Fee: | \$ |

**Second Option**

|                                |    |
|--------------------------------|----|
| Estimated Cost:                | \$ |
| Fixed Fee:                     | \$ |
| Estimated Cost Plus Fixed Fee: | \$ |

**Third Option**

|                                |    |
|--------------------------------|----|
| Estimated Cost:                | \$ |
| Fixed Fee:                     | \$ |
| Estimated Cost Plus Fixed Fee: | \$ |

**Fourth Option**

Estimated Cost: \$

Fixed Fee: \$

Estimated Cost Plus Fixed Fee: \$

#### **H-7 ON-SITE USE OF GOVERNMENT PROPERTY**

It is anticipated that Government property will be used by the contractor's personnel in the performance of that portion of the contract performed on-site at the U.S. Naval Research Laboratory (NRL) including any of its field sites. Such use will be on a rent free basis and all such property shall be considered to remain in the possession and control of the NRL for property responsibility and accountability purposes.

#### **H-8 REPRESENTATIONS AND CERTIFICATIONS**

The Contractor's completed Representations, Certifications, and Other Statements of Offerors or Respondents is incorporated herein by reference in any resultant award.

#### **H-9 SUBCONTRACTING PLAN**

The contractor's Comprehensive Small Business Subcontracting Plan is incorporated into this contract in accordance with DFARS SUBPART 219.7 *Test Program for Negotiation of Comprehensive Small Business Subcontracting Plans*.

#### **H-10 PROTECTION OF HUMAN SUBJECTS**

It is understood and agreed that in the performance of this contract the Contractor shall comply, as appropriate, with the provisions of the following directives/regulations:

- (a) Department of Defense, Title 32, Code of Federal Regulations, Part 219 (32 CFR 219), "Protection of Human Subjects" and "Protection of Human Subjects in DoD Supported Research", August 1991;
- (b) DHHS Regulations, "Protection of Human Subjects" (45 Code of Federal Regulations Part 46) of 19 August 1991; and
- (c) DoD Directive 3216.2, "Protection of Human Subjects in DoD Supported Research", 7 January 1983, as amended.

**PART II - CONTRACT CLAUSES**  
**SECTION I**  
**CONTRACT CLAUSES**

**I-1 52.252-2 - CLAUSES INCORPORATED BY REFERENCE (FEB 1998)**

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available.

Also, the full text of a clause may be accessed electronically at this/these address(es):

<http://www.arnet.gov/far>

<http://heron.nrl.navy.mil/contracts/home.htm>

**a. FEDERAL ACQUISITION REGULATION CLAUSES**

**FAR CLAUSE    TITLE**

|           |   |  |
|-----------|---|--|
| 52.202-1  | - | Definitions (MAY 2001)   |
| 52.203-3  | - | Gratuities (APR 1984)  |
| 52.203-5  | - | Covenant Against Contingent Fees (APR 1984)  |
| 52.203-6  | - | Restrictions On Subcontractor Sales To The Government (JUL 1995)   |
| 52.203-7  | - | Anti-Kickback Procedures (JUL 1995)  |
| 52.203-8  | - | Cancellation, Rescission, And Recovery Of Funds For Illegal Or Improper Activity (JAN 1997)  |
| 52.203-10 | - | Price Or Fee Adjustment For Illegal Or Improper Activity (JAN 1997)  |
| 52.203-12 | - | Limitation On Payments To Influence Certain Federal Transactions (JUN 1997)  |
| 52.204-2  | - | Security Requirements (AUG 1996)   |
| 52.204-4  | - | Printed Or Copied Double-Sided On Recycled Paper (AUG 2000)  |
| 52.209-6  | - | Protecting The Government's Interest When Subcontracting With Contractors Debarred, Suspended, Or Proposed For Debarment (JUL 1995)  |
| 52.211-15 | - | Defense Priority And Allocation Requirements (SEP 1990)  |
| 52.215-2  | - | Audit And Records-Negotiation (JUN 1999)   |
| 52.215-8  | - | Order Of Precedence - Uniform Contract Format (OCT 1997)   |
| 52.215-11 | - | Price Reduction For Defective Cost Or Pricing Data - Modifications (OCT 1997)  |
| 52.215-13 | - | Subcontractor Cost Or Pricing Data Modifications (OCT 1997)  |
| 52.215-14 | - | Integrity Of Unit Prices (OCT 1997)  |
| 52.215-15 | - | Pension Adjustments And Asset Reversions (DEC 1998)  |
| 52.215-17 | - | Waiver Of Facilities Capital Cost Of Money (OCT 1997)<br>( will be included if the successful offeror does not propose facilities capital cost of money)   |
| 52.215-18 | - | Reversion Or Adjustment Of Plans For Post-Retirement Benefits (PRB) Other Than Pensions (OCT 1997)   |
| 52.215-19 | - | Notification Of Ownership Changes (OCT 1997)   |
| 52.215-21 | - | Requirements For Cost Or Pricing Data Or Information Other Than Cost Or Pricing Data -Modifications (OCT 1997) - Alternate III (OCT 1997)  |
| 52.216-7  | - | Allowable Cost And Payment (MAR 2000) <i>(If the contract is with an educational institution, modify the clause by deleting from paragraph (a) "Subpart 31.2" and substitute "Subpart 31.3". If the contract is with a state or local government, delete</i> |

*from paragraph (a) "Subpart 31.2" and substitute "Subpart 31.6". If the contract is with a nonprofit other than an educational institution, a state or local government, or a nonprofit organization exempted under OMB Circular A-122, modify the clause by deleting from paragraph (a) "Subpart 31.2" and substituting "Subpart 31.7".)*

- 52.216-8 - Fixed-Fee (MAR 1997)
- 52.219-4 - Notice Of Price Evaluation Preference For HUBZone Small Business Concerns (JAN 1999) ☐ Offeror elects to waive the evaluation preference.
- 52.219-8 - Utilization Of Small Business Concerns (OCT 2000)
- 52.219-9 - Small Business Subcontracting Plan (OCT 2001) - Alternate II (OCT 2001)
- 52.219-16 - Liquidated Damages-Subcontracting Plan (JAN 1999)
- 52.219-25 - Small Disadvantaged Business Participation Program-Disadvantaged Status And Reporting (OCT 1999)
- 52.222-2 - Payment For Overtime Premiums (JUL 1990) -The Use Of Overtime Is Authorized Under This Contract If The Overtime Premium Does Not Exceed "0"
- 52.222-3 - Convict Labor (AUG 1996)
- 52.222-21 - Prohibition of Segregated Facilities (FEB 1999)
- 52.222-26 - Equal Opportunity (FEB 1999)
- 52.222-35 - Affirmative Action For Disabled Veterans And Veterans Of The Vietnam Era (APR 1998)
- 52.222-36 - Affirmative Action For Workers With Disabilities (JUN 1998)
- 52.222-37 - Employment Reports On Disabled Veterans And Veterans Of The Vietnam Era (JAN 1999)
- 52.223-3 - Hazardous Material Identification And Material Safety Data (JAN 1997)
- 52.223-5 - Pollution Prevention And Right-To-Know Information (APR 1998)
- 52.223-6 - Drug-Free Workplace (MAY 2001)
- 52.223-10 - Waste Reduction Program (AUG 2000)
- 52.223-14 - Toxic Chemical Release Reporting (OCT 2000)
- 52.225-13 - Restrictions On Certain Foreign Purchases (JUL 2000)
- 52.227-1 - Authorization And Consent (JUL 1995)- Alternate I (APR 1984)
- 52.227-2 - Notice And Assistance Regarding Patent And Copyright Infringement (AUG 1996)
- 52.227-10 - Filing Of Patent Application- Classified Subject Matter (APR 1984)
- 52.227-11 - Patent Rights - Retention By The Contractor (Short Form) (JUN 1997)  
*(will be included if the successful offeror is a small business or a non-profit organization)*
- 52.227-12 - Patent Rights - Retention By The Contractor (Long Form) (JAN 1997)  
*(will be included if the successful offeror is not a small business or a non-profit organization)*
- 52.228-7 - Insurance - Liability To Third Persons (MAR 1996)
- 52.230-2 - Cost Accounting Standards (APR 1998)
- 52.230-3 - Disclosure And Consistency Of Cost Accounting Practices (APR 1998)
- 52.230-6 - Administration Of Cost Accounting Standards (NOV 1999)
- 52.232-9 - Limitation On Withholding Of Payments (APR 1984)
- 52.232-17 - Interest (JUN 1996)
- 52.232-18 - Availability Of Funds (APR 1984)
- 52.232-20 - Limitation Of Cost (APR 1984) *(Applicable when the contract or task order is fully funded)*

- 52.232-22 - Limitation Of Funds (APR 1984) (*Applicable when the contract or task order is not fully funded*)
- 52.232-23 - Assignment Of Claims (JAN 1986) Alternate I (APR 1984)
- 52.232-25 - Prompt Payment (MAY 2001)
- 52.232-25 - Prompt Payment (MAY 2001) Alternate I (OCT 2001)
- 52.232-33 - Payment By Electronic Funds Transfer-Central Contractor Registration (MAY 1999)
- 52.233-1 - Disputes (DEC 1998) - Alternate I (DEC 1991)
- 52.233-3 - Protest After Award (AUG 1996) - Alternate I (JUN 1985)
- 52.237-2 - Protection Of Government Buildings, Equipment And Vegetation (APR 1984)
- 52.237-3 - Continuity Of Services (JAN 1991)
- 52.242-1 - Notice Of Intent To Disallow Costs (APR 1984)
- 52.242-3 - Penalties For Unallowable Costs (MAY 2001)
- 52.242-4 - Certification of Final Indirect Costs (JAN 1997)
- 52.242-13 - Bankruptcy (JUL 1995)
- 52.243-2 - Changes - Cost-Reimbursement (AUG 1987) - Alternate I (APR 1984)
- 52.244-2 - Subcontracts (AUG 1998) - Alternate I (AUG 1998)
- 52.244-5 - Competition In Subcontracting (DEC 1996)
- 52.244-6 - Subcontracts For Commercial Items (MAY 2001)
- 52.245-5 - Government Property (Cost-Reimbursement, Time-And-Material, Or Labor-Hour Contracts) (JAN 1986) (DEVIATION)
- 52.246-23 - Limitation Of Liability (FEB 1997)
- 52.246-25 - Limitation Of Liability - Services (FEB 1997)
- 52.247-1 - Commercial Bill Of Lading Notations (APR 1984)
- 52.247-63 - Preference For U. S. Flag Carriers (JAN 1997)
- 52.249-6 - Termination (Cost-Reimbursement) (SEP 1996)
- 52.249-14 - Excusable Delays (APR 1984)
- 52.251-1 - Government Supply Sources (APR 1984)
- 52.252-6 - Authorized Deviations in Clauses (APR 1984)( fill in Defense Federal Acquisition Regulation Supplement (48 CFR Chapter 2))
- 52.253-1 - Computer Generated Forms (JAN 1991)

**b. DEPARTMENT OF DEFENSE FEDERAL ACQUISITION REGULATION CLAUSES**

**DFARS CLAUSE TITLE**

- 252.201-7000 - Contracting Officer's Representative (DEC 1991)
- 252.203-7001 - Prohibition On Persons Convicted Of Fraud Or Other Defense Contract Related Felonies (MAR 1999)
- 252.203-7002 - Display Of DoD Hotline Poster (DEC 1991)
- 252.204-7000 - Disclosure Of Information (DEC 1991)
- 252.204-7003 - Control Of Government Personnel Work Product (APR 1992)
- 252.204-7004 - Required Central Contractor Registration (MAR 2000)
- 252.204-7005 - Oral Attestation Of Security Responsibilities (AUG 1999)
- 252.205-7000 - Provision Of Information To Cooperative Agreement Holders (DEC 1991)
- 252.209-7000 - Acquisition From Subcontractors Subject To On-Site Inspection Under The Intermediate-Range Nuclear Forces (INF) Treaty (NOV 1995)
- 252.209-7004 - Subcontracting With Firms That Are Owned Or Controlled By The Government Of A Terrorist Country (MAR 1998)



- 252.215-7000 - Pricing Adjustments (DEC 1991)
- 252.219-7003 - Small Business And Small Disadvantaged Business Subcontracting Plan (DoD Contracts) (APR 1996)
- 252.219-7004 - Small, Small Disadvantaged And Women-Owned Small Business Subcontracting Plan (Test Program) (JUN 1997)
- 252.223-7004 - Drug-Free Work Force (SEP 1988)
- 252.223-7006 - Prohibition On Storage And Disposal Of Toxic And Hazardous Materials (APR 1993)
- 252.225-7001 - Buy American Act And Balance Of Payments Program (MAR 1998)
- 252.225-7002 - Qualifying Country Sources As Subcontractors (DEC 1991)
- 252.225-7012 - Preference For Certain Domestic Commodities (AUG 2000)
- 252.225-7026 - Reporting Of Contract Performance Outside The United States (JUN 2000)
- 252.225-7031 - Secondary Arab Boycott Of Israel (JUN 1992)
- 252.225-7043 - Antiterrorism/Force Protection Policy For Defense Contractors Outside The United States (JUN 1998) (fill in : Naval Criminal Investigative Service (NCIS), Code 24, telephone, DSN 228-9113 or commercial (202)433-9113)
- 252.226-7001 - Utilization of Indian Organizations and Indian-Owned Economic Enterprises-DoD Contracts (SEP 2001)
- 252.227-7013 - Rights In Technical Data -- Noncommercial Items (NOV 1995)
- 252.227-7016 - Rights In Bid Or Proposal Information (JUN 1995)
- 252.227-7025 - Limitations On The Use Or Disclosure Of Government-Furnished Information Marked With Restrictive Legends (JUN 1995)
- 252.227-7030 - Technical Data--Withholding Of Payment (MAR 2000)
- 252.227-7034 - Patents--Subcontracts (APR 1984)
- 252.227-7036 - Declaration Of Technical Data Conformity (JAN 1997)
- 252.227-7037 - Validation Of Restrictive Markings On Technical Data (SEP 1999)
- 252.227-7039 - Patents--Reporting Of Subject Inventions (APR 1990)
- 252.231-7000 - Supplemental Cost Principles (DEC 1991)
- 252.235-7010 - Acknowledgment Of Support And Disclaimer (MAY 1995)
- 252.235-7011 - Final Scientific Or Technical Report (SEP 1999)
- 252.242-7000 - Post Award Conference (DEC 1991)
- 252.242-7004 - Material Management And Accounting System (DEC 2000)
- 252.243-7002 - Requests For Equitable Adjustment (MAR 1998)
- 252.244-7000 - Subcontracts For Commercial Items And Commercial Components (DOD Contracts) (MAR 2000)
- 252.245-7001 - Reports Of Government Property (MAY 1994)
- 252.246-7001 - Warranty Of Data (DEC 1991)
- 252.247-7023 - Transportation Of Supplies By Sea (MAR 2000)
- 252.247-7024 - Notification Of Transportation Of Supplies By Sea (MAR 2000)  
(will be included if the successful offeror made a negative response to the inquiry at DFARS 252.247-7022)
- 252.251-7000 - Ordering From Government Supply Sources (MAY 1995)

## I-2 FAR 52.223-11 - OZONE-DEPLETING SUBSTANCES (MAY 2001)

- (a) *Definitions.* "Ozone-depleting substance", as used in this clause, means any substance the

Environmental Protection Agency designates in 40 CFR Part 82 as –

- (1) Class I, including, but not limited to, chlorofluorocarbons, halons, carbon tetrachloride, and methyl chloroform; or
- (2) Class II, including, but not limited to, hydrochlorofluorocarbons.

(b) The Contractor shall label products which contain or are manufactured with ozone-depleting substances in the manner and to the extent required by 42 U.S.C. 7671j (b), (c), and (d) and 40 CFR Part 82, Subpart E, as follows:

**WARNING**

Contains (or manufactured with, if applicable) \_\_\_\_\_, a substance(s) which harm(s) public health and environment by destroying ozone in the upper atmosphere.

\*The Contractor shall insert the name of the substance(s).

**PART III - LIST OF DOCUMENTS, EXHIBITS, AND OTHER ATTACHMENTS**

**SECTION J**

**LIST OF ATTACHMENTS**

- J-1** Attachment (1) - Statement Of Work – 9 Pages, With Exhibit A - DD Form 1423, Contract Data Requirements List, 3 Pages.
- J-2** Attachment (2) – Personnel Qualifications – 5 Pages
- J-3** Attachment (3) - DD Form 254, Contract Security Classification Specification, Ser 059-01 Dated 05 December 2001 w/Attachments 2 Pages.
- J-4** Attachment (4) – Accounting and Appropriation Data- 1 page. \*

*(\* To be included at time of award)*

**PART IV - REPRESENTATIONS AND INSTRUCTIONS**

**SECTION - K**

**REPRESENTATIONS, CERTIFICATIONS  
AND OTHER STATEMENTS OF OFFERORS OR RESPONDENTS**

**K-1 Representations, Certifications, and Other Statements of Offerors or Respondents**

Each Offeror must submit a completed Representations, Certifications, and Other Statements Of Offerors or Respondents with its proposal which is available electronically in full text at <http://heron.nrl.navy.mil/contracts/rep&certs.htm>

**K-2 FILL IN FOR FAR 52.219-1 - SMALL BUSINESS PROGRAM REPRESENTATIONS (MAR 2001)**

The fill in information is as follows:

The NAICS code for this acquisition is 541710

The small business size standard is. 500

**SECTION L  
INSTRUCTIONS CONDITIONS AND NOTICES  
TO OFFERORS OR RESPONDENTS**

**L-1 52.252-1 SOLICITATION PROVISIONS INCORPORATED BY REFERENCE (FEB 1998)**

This solicitation incorporates one or more solicitation provisions by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. The offeror is cautioned that the listed provisions may include blocks that must be completed by the offeror and submitted with its quotation or offer. In lieu of submitting the full text of those provisions, the offeror may identify the provision by paragraph identifier and provide the appropriate information with its quotation or offer. Also, the full text of a solicitation provision may be accessed electronically at this/these address(es):

<http://www.arnet.gov/far>  
<http://heron.nrl.navy.mil/contracts/home.htm>

**FAR CLAUSE    TITLE**

- |           |   |   |
|-----------|---|---|
| 52.204-6  | - | Data Universal Numbering System (DUNS) Number (JUNE 1999)   |
| 52.215-1  | - | Instructions To Offerors- Competitive Acquisition (MAY 2001)  |
| 52.215-5  | - | Facsimile Proposals (OCT 1997)<br>Paragraph (c) is completed as follows: (202) 767-6197 (primary) or (202) 767-0494 (alternate). In addition facsimile proposals may be transmitted by e-mail to <a href="mailto:fleming@contracts.nrl.navy.mil">fleming@contracts.nrl.navy.mil</a> (primary) or <a href="mailto:horton@nrl.navy.mil">horton@nrl.navy.mil</a> (alternate) in either Microsoft Word (version 97 or earlier) or pdf format. |
| 52.215-16 | - | Facilities Capital Cost Of Money (OCT 1997)   |
| 52.219-24 | - | Small Disadvantaged Business Participation Program - Targets (OCT 2000)   |
| 52.222-24 | - | Preaward On-Site Equal Opportunity Compliance Evaluation (FEB 1999)   |
| 52.237-10 | - | Identification of Uncompensated Overtime (OCT 1997)   |

**L-2 FAR 52.211-14 - NOTICE OF PRIORITY RATING FOR NATIONAL DEFENSE USE (SEP 1990)**

Any contract awarded as a result of this solicitation will be a ☐ DX rated order; ☒ DO rated order certified for national use under the Defense Priorities and Allocations system (DPAS) (15 CFR 700), and the Contractor will be required to follow all of the requirements of this regulation.

**L-3 FAR 52.215-20 REQUIREMENTS FOR COST OR PRICING DATA OR INFORMATION OTHER THAN COST OR PRICING DATA (OCT 1997)ALTERNATE IV (OCT 1997)**

- (a) Submission of cost or pricing data is not required.
- (b) Provide information described in Section L-12, Volume II – Business Proposal. More detailed information may be required and will be requested if and when it is deemed necessary for the evaluation of a specific proposal.

**L-4 FAR 52.216-1 - TYPE OF CONTRACT (APR 1984)**

The Government contemplates award of a Cost Plus Fixed Fee term contract resulting from this solicitation.

**L-5 FAR 52.233-2 - SERVICE OF PROTEST (AUG 1996)**

- (a) Protests, as defined in Section 33.101 of the Federal Acquisition Regulation, that are filed directly with an agency, and copies of any protests that are filed with the General Accounting Office (GAO) shall be served on the Contracting Officer (addressed as follows) by obtaining written and dated acknowledgment of receipt from the Control Desk, Code 3200, Bldg. 222, Rm. 115, Naval Research Laboratory, 4555 Overlook Ave., S.W., Washington DC 20375-5326.
- (b) The copy of any protest shall be received in the office designated above within one day of filing a protest with the GAO.

**L-6 DFARS 252.227-7017 - IDENTIFICATION AND ASSERTION OF USE, RELEASE, OR DISCLOSURE RESTRICTIONS (JUN 1995)**

- (a) The terms used in this provision are defined in following clause or clauses contained in this solicitation—
  - (1) If a successful offeror will be required to deliver technical data, the Rights in Technical Data--Noncommercial Items clause, or, if this solicitation contemplates a contract under the Small Business Innovative Research Program, the Rights in Noncommercial Technical Data and Computer Software--Small Business Innovative Research (SBIR) Program clause.
  - (2) If a successful offeror will not be required to deliver technical data, the Rights in Noncommercial Computer Software and Noncommercial Computer Software Documentation clause, or, if this solicitation contemplates a contract under the Small Business Innovative Research Program, the Rights in Noncommercial Technical Data and Computer Software--Small Business Innovative Research (SBIR) Program clause.
- (b) The identification and assertion requirements in this provision apply only to technical data, including computer software documents, or computer software to be delivered with other than unlimited rights. For contracts to be awarded under the Small Business Innovative Research Program, the notification requirements do not apply to technical data or computer software that will be generated under the resulting contract. Notification and identification is not required for restrictions based solely on copyright.
- (c) Offers submitted in response to this solicitation shall identify, to the extent known at the time an offer

is submitted to the Government, the technical data or computer software that the Offeror, its subcontractors or suppliers, or potential subcontractors or suppliers, assert should be furnished to the Government with restrictions on use, release, or disclosure.

- (d) The Offeror's assertions, including the assertions of its subcontractors or suppliers or potential subcontractors or suppliers shall be submitted as an attachment to its offer in the following format, dated and signed by an official authorized to contractually obligate the Offeror:

Identification and Assertion of Restrictions on the Government's Use, Release, or Disclosure of Technical Data or Computer Software.

The Offeror asserts for itself, or the persons identified below, that the Government's rights to use, release, or disclose the following technical data or computer software should be restricted:

| Technical Data<br>Computer Software<br>to be Furnished<br>With Restrictions* | Basis for<br>Assertion ** | Asserted Rights<br>Category *** | Name of Person<br>Asserting<br>Restrictions**** |
|--|---------------------------|---------------------------------|---|
| (List)*****  | (List)                    | (List)                          | (List)  |

\* For technical data (other than computer software documentation) pertaining to items, components, or processes developed at private expense, identify both the deliverable technical data and each such items, component, or process. For computer software or computer software documentation identify the software or documentation.

\*\* Generally, development at private expense, either exclusively or partially, is the only basis for asserting restrictions. For technical data, other than computer software documentation, development refers to development of the item, component, or process to which the data pertain. The Government's rights in computer software documentation generally may not be restricted. For computer software, development refers to the software. Indicate whether development was accomplished exclusively or partially at private expense. If development was not accomplished at private expense, or for computer software documentation, enter the specific basis for asserting restrictions.

\*\*\* Enter asserted rights category (e.g., government purpose license rights from a prior contract, rights in SBIR data generated under another contract, limited, restricted, or government purpose rights under this or a prior contract, or specially negotiated licenses).

\*\*\*\* Corporation, individual, or other person, as appropriate.

\*\*\*\*\* Enter "none" when all data or software will be submitted without restrictions.

Date

Printed Name and Title

Signature

(End of identification and assertion)

- (e) An offeror's failure to submit, complete, or sign the notification and identification required by

paragraph (d) of this provision with its offer may render the offer ineligible for award.

- (f) If the Offeror is awarded a contract, the assertions identified in paragraph (d) of this provision shall be listed in an attachment to that contract. Upon request by the Contracting Officer, the Offeror shall provide sufficient information to enable the Contracting Officer to evaluate any listed assertion.

#### **L-7 DFARS 252.227-7028 - TECHNICAL DATA OR COMPUTER SOFTWARE PREVIOUSLY DELIVERED TO THE GOVERNMENT (JUN 1995)**

The Offeror shall attach to its offer an identification of all documents or other media incorporating technical data or computer software it intends to deliver under this contract with other than unlimited rights that are identical or substantially similar to documents or other media that the Offeror has produced for, delivered to, or is obligated to deliver to the Government under any contract or subcontract. The attachment shall identify - -

- (a) The contract number under which the data or software were produced;
- (b) The contract number under which, and the name and address of the organization to whom, the data or software were most recently delivered or will be delivered; and
- (c) Any limitations on the Government's rights to use or disclose the data or software, including, when applicable, identification of the earliest date the limitations expire.

#### **L-8 GOVERNMENT-FURNISHED PROPERTY**

No material, labor, or facilities will be furnished by the Government unless provided for in the solicitation.

#### **L-9 INQUIRIES CONCERNING THE RFP**

Any questions concerning the RFP must be submitted in writing to the Contracting Officer at the location noted in blocks 7 and 9 of the Standard Form 33, "Solicitation, Offer and Award," no less than fifteen (15) days before closing. The Government will not consider questions received after this date. Offerors are cautioned against directing any questions concerning this RFP to technical personnel at the Naval Research Laboratory.

#### **L-10 INSTRUCTIONS FOR SUBMISSION AND INFORMATION REQUIRED TO EVALUATE PROPOSALS**

- (1) Information for the technical/management proposal shall be placed in Volume I and be completely separate from the business proposal (Volume II).
- (2) Proposal Identification/Mailing - The proposal should be packaged for delivery so as to permit safe and timely arrival at destination. The proposal package should be sent to the address shown in Block 7 of the RFP face page and marked:

**Solicitation No. N00173-02-R-LS02**

**Closing Date:**

**(As specified in Block 9, RFP face page)**

**Attn: Code 3230.LS**

(3) Proposal Format and Length - No attempt is made to restrict the proposal format and style. However, the proposal should be written and organized so as to be compatible with the RFP, the Statement of Work, company's organization and accounting structure, and proposed cost estimate. Offerors are encouraged to use recycled paper and maximize the use of double sided copying when preparing responses to solicitations.

## **L-11 VOLUME I - TECHNICAL/MANAGEMENT PROPOSAL**

REQUIRED COPIES: 1 ORIGINAL AND 3 COPIES . Offerors are encouraged to submit an electronic copy of their proposal on a CD ROM or PC formatted disk in addition to their paper copies. This is in an effort to further the Government's ambitions of operating in a paperless environment.

(1) Include a matrix indicating proposed labor hours by skill category required to perform the statement of work. Please note that the contractor must propose in accordance with the level of effort breakdown identified in Section H of this Solicitation.

(2) The following information is required for evaluation of your technical/management :

Personnel Qualifications - The offeror should provide convincing proof that the offeror has, or has the ability to obtain, personnel with relevant experience in the scientific and technical areas described in the statement of work. These are highly specialized fields and personnel without actual experience in these areas are not acceptable. The proposal should indicate the specific key personnel who will work on this contract, their background and pertinent experience, and the amount of effort each will be performing on this contract. This will include the education level, experience, both general and project related. The proposal must show the availability of sufficient key project professional and technical personnel by the prime contract as well as any proposed subcontractors and consultants.

Company Experience - The proposal must provide a narrative description of company experience on projects with scientific and technical tasks similar to those required in the Statement of Work. This description should clearly show: (1) the relationship between the company's experience and the tasks required under the Statement of Work and (2) prior or current programs in the task areas.

Management Ability - The proposal must provide a narrative description of company management experience on projects with scientific and technical tasks similar to those required in the Statement of Work. This description should clearly show previous performance at meeting instrument performance, cost and schedule goals on these projects.

Past Performance Information - (a) Offerors shall submit the following information as part of their proposal. *(Offerors are encouraged to submit the information prior to other parts of the proposal to assist the government in reducing the length of the evaluation period.)* List the last three contracts or subcontracts completed by the offeror or predecessor companies during the past two years for services similar in nature to this requirement. Include in the three any current contracts or subcontracts for similar services that were awarded at least one year prior to the date of this solicitation. Offerors that have no similar previous or current contracts should provide the requested

information for proposed subcontractors that will perform major or critical aspects of the requirement or for the proposed project manager or key personnel responsible for major or critical aspects of the requirement.

1. Name of contracting organization.
2. Contract number
3. Contract type
4. Total contract value
5. Description of the contract work
6. Contracting officer and telephone number
7. Contracting officer's representative, program manager, or similar official and telephone number

(b) Offerors shall contact the contracting organizations identified pursuant to paragraph (a) as soon as possible and request them to send past performance information on the identified contracts to the address in Block 7 of the face page of this solicitation. The past performance report which is available electronically in full text at <http://heron.nrl.navy.mil/contracts/home.htm> is to be provided to the contracting organization for this purpose. If the contracting organization has already collected past performance information on the contract pursuant to FAR Subpart 42.15, the format used to collect the information may be used instead of the past performance report.

(c) Offerors may include in their proposals specific information relating to problems encountered in performing the identified contracts and any corrective actions by the offeror. Offerors should not provide general information on their performance on the identified contracts as this will be obtained from the contracting organizations.

## **L-12 VOLUME II - BUSINESS PROPOSAL**

REQUIRED COPIES: 1 ORIGINAL AND three COPIES

### **(1) COST PROPOSAL**

(a) The offeror shall submit a business proposal that includes a cost proposal with supporting information for each cost element consistent with offeror's cost accounting system. The supporting breakdown should include such elements as materials, direct labor, indirect cost, and other costs such as travel. The offeror shall provide exhibits as necessary to substantiate each cost element. Should rates be used in the proposal that are not DCAA approved, the offeror shall provide complete documentation and the rationale for their use at time of proposal submission. However, offerors are advised to use actual labor rates of proposed personnel as the basis for estimating labor costs when practicable.

(b) It is requested that offerors provide one copy of their cost proposal on a PC formatted disk or CD Rom using software that is compatible with Microsoft Excel Version 5.

(c) The following travel And material estimates are for evaluation purposes only. The government estimates the travel costs for this effort to be \$85,000 per year and the material costs to be \$450,000 per year. All offers will be evaluated using the estimated amounts provided above plus applicable indirect costs.



**(2) SMALL BUSINESS PARTICIPATION**

(a) In addition to complying with the clause at FAR 52.219-9, Small Business Subcontracting Plan (OCT 2000) with its Alternate II (OCT 2000), proposals must include information to permit evaluation of the extent of participation of small businesses and historical black colleges or universities and minority institutions in performance of the contract. Participation to be identified may be in the form of a joint venture, teaming arrangement, or subcontract. Small business concerns that are not required by FAR 52.219-9 to submit a subcontracting plan must indicate the extent to which proposed joint ventures, teaming arrangements, or subcontracts are with historically black colleges or universities and minority institutions. Information provided should include the extent of participation of such firms in terms of the value of the total acquisition and the complexity and variety of the work such firms are to perform.

(b) Proposals must also include information to permit evaluation of the extent of participation of small disadvantaged business concerns in performance of the contract. See the provision at FAR 52.219-24, Small Disadvantaged Business Participation Program--Targets (OCT 2000), and the clause at 52.219-25, Small Disadvantaged Business Participation Program--Disadvantaged Status and Reporting (OCT 1999). Any targets will be incorporated into and become part of any resulting contract. Information provided should include the extent of participation of such firms in terms of the value of the total acquisition and the complexity and variety of the work such firms are to perform.

**SECTION M  
EVALUATION FACTORS FOR AWARD****M-1 EVALUATION**

Award will be made to that offeror whose proposal is determined to be the best value to the Government, proposed cost and other factors considered. The Government reserves the right to make award to other than the low offeror. Although technical considerations are more important than the cost factor, the closer the technical scores of the various proposals are to one another, the more important the business considerations become.

**M-2 EVALUATION FACTORS FOR AWARD**

Proposals will be evaluated in accordance with the following criteria. The technical factor is more important than the cost factor. The technical subfactors are listed in descending order of importance with Personnel Qualifications being significantly more important than the remaining three technical subfactors.

**M-2-1. TECHNICAL/MANAGEMENT****(1) PERSONNEL QUALIFICATIONS**

The proposal will be evaluated on the offeror's demonstrated ability to provide personnel with: (1) the appropriate qualifications set forth in Attachment (2) of this Solicitation; and (2) actual relevant experience in the technical and scientific areas set forth in the Statement of Work.

**(2) COMPANY EXPERIENCE**

The proposal will be evaluated on the offeror's demonstrated company experience in performing projects requiring scientific and technical effort, which is closely similar or related to the scientific and technical efforts set forth in the Statement of Work.

**(3) MANAGEMENT ABILITY**

The proposal will be evaluated on the offeror's demonstrated management ability and success in managing projects of similar complexity and duration as that set forth in the Statement of Work.

**(5) PAST PERFORMANCE**

Past performance will be evaluated on the basis of the quality of the work performed, timeliness of performance, cost control, and business relations. The evaluation will be based on the information provided pursuant to Section L and other sources if available. The evaluation will take into account past performance information regarding predecessor companies, subcontractors that will perform major or critical aspects of the requirement, or the proposed project manager or key personnel responsible for major or critical aspects of the requirement. Offerors that have no relevant performance history or for which past performance information is not available will not be evaluated favorably or unfavorably on past performance. The government may begin proposal evaluation prior to receipt of past performance information. If, after completion of proposal evaluation except evaluation of past performance, the contracting officer determines that evaluation of past performance will not affect the outcome of competitive selection, the contracting officer may waive its evaluation in accordance with FAR 15.304(c)(3)(iv).

**M-2-2 COST TO THE GOVERNMENT**

Proposed estimated cost to the Government. The Government may adjust the proposed cost for purposes of evaluation based upon an evaluation of cost realism. Cost Realism means that the costs in an offeror's proposal are realistic for the work to be performed; reflect a clear understanding of the requirements; and are consistent with the various elements of the offeror's technical proposal. The cost realism evaluation includes an analysis of the adequacy of the hours, labor mix, and other direct costs to perform the work as proposed in the technical proposal as well as the proposed labor and indirect rates. It also includes evaluation of the likelihood that the risks inherent in the offeror's technical approach will result in higher actual costs than anticipated.

**M-2-3 SMALL BUSINESS PARTICIPATION**

(a) The extent of participation of small businesses and historically black colleges or universities and minority institutions in performance of the contract will be evaluated on the basis of the proposed extent of participation of such firms in terms of the value of the total acquisition and the complexity and variety of the work such firms are to perform.

(b) The extent of participation of small disadvantaged business concerns in performance of the contract will be evaluated on the basis of the proposed extent of participation of such firms in terms of the value of the total acquisition and the complexity and variety of the work such firms are to perform.

**M-3 FAR 52.217-5 - EVALUATION OF OPTIONS (JUL 1990)**

Except when it is determined in accordance with FAR 17.206(b) not to be in the Government's best interests, the Government will evaluate offers for award purposes by adding the total price for all options to the total price for the basic requirement. Evaluation of options will not obligate the Government to exercise the option(s).

NAVAL RESEARCH LABORATORY

STATEMENT OF WORK

FOR

SYSTEMS ENGINEERING ANALYSIS  
AND TECHNICAL SUPPORT FOR

INNOVATIVE CONCEPTS AND  
ADVANCED TECHNOLOGY  
DEMONSTRATIONS



4555 Overlook Avenue, S.W.  
Washington, D.C. 20375-5000

## **1. INTRODUCTION**

The Naval Research Laboratory's (NRL) space research and development program objectives are to preserve and enhance a strong space technology base and to provide expert capabilities in the development and acquisition of space and ground systems. To meet that charter, NRL conducts a broad range of space technology studies and other pertinent applied research and development (R&D) projects. NRL applies systems engineering, applied research and development, and technical expertise to a wide-ranging suite of scientific, operational, and quick reaction space, terrestrial, and command, control, communications, computers, and intelligence (C<sup>4</sup>I) missions. NRL develops and applies technologies for future space systems, space transportation systems, and C<sup>4</sup>I efforts, and transitions these technologies to industry for operational systems.

The scope of NRL's efforts is quite broad and entails multi-disciplinary approaches to discovering and applying new knowledge and technologies to space and avionics applications and designing, fabricating, testing, and operating space systems and related technology systems (e.g., space and ground systems, launch vehicle integration, and mission operations). Recent examples of these efforts include: the Satellite Based Wind Speed and Directions System (WINDSAT), the Naval Earthmap Observer (NEMO), the Interim Control Module (ICM), the Hyperspectral Remote Sensing Technology (HRST) initiative, the Tether Physics and Survivability (TiPS) Experiment; the Microelectronics Photonics Test Bed (MPTB); the Breakout Information Age Technology (BiaTECH) demonstration; the CLEMENTINE Deep Space Program Science Experiment (DSPSE) advanced technology demonstration (ATD); the Low Power Atmospheric Compensation Experiment (LACE) laser compensation and plume experiment space test vehicle; the Improved Data Modem for avionics applications; the Special Sensor Ultraviolet Limb Imager (SSULI) scientific instrument for the Defense Meteorological Support Program (DMSP); and hybrid engine concepts.

## **2. SCOPE**

The Naval Research Laboratory (NRL) has a requirement to support applied R&D programs with U.S. Navy and non-Navy sponsors, where the results of such efforts will ultimately support the Navy's mission. NRL has a number of projects at various stages of development, including conceptual or design phases of advanced, leading edge projects that may be included in future space systems. Some of these projects involve long-term development, while others emphasize short time-frame deliveries of advanced technology systems.

To meet these needs, the contractor shall provide technical, engineering, scientific, and logistical expertise to support the NRL in the areas of research, design, test and evaluation, operation of advanced concept and prototype spacecraft and their payloads and launch systems, airborne systems, and related innovative technology

design . Efforts will range from concept exploration through specification formulation, design, test, integration, launch, operations, proof-of-concept and quick-reaction capability (QRC) demonstrations, innovative solutions for wide area remote sensing, information age technologies, space systems architectures, and advanced launch vehicle systems.

The requirements will include design of appropriate hardware and systems; systems analysis, planning, management, and engineering; analysis and planning for the collection, reduction, analysis, and documentation of space experiments and operational data; modeling and simulation; test and evaluation; and logistics support.

Recent NRL projects have entailed building smaller high-technology space systems in a short time-frame. Due to the fast-track nature of some of these projects, the contractor shall support NRL or provide independent concurrent engineering of specified space systems, subsystems, components, and procedures. The contractor shall test and evaluate work in progress; initiate alternative or parallel inquiries; and otherwise verify the technical validity of concepts, designs, components, and procedures.

### **3. REQUIREMENTS**

This section provides NRL's requirements under this procurement. Unless otherwise specified, the Contractor shall perform the tasks, render the services, provide the facilities, and deliver all supplies, equipment, items, and services as set forth herein.

#### **3.1 Technical and Scientific Assessment**

The contractor shall provide technical and scientific assessment tasks for exploratory R&D and advanced technology development projects. The Contractor shall perform technical studies related to space, payload, launch, and ground system applications, designs, and laboratory tests. On the basis of these assessments, the contractor shall report recommendations regarding mission applications, techniques, designs, and testing protocols. This includes efforts related to technical data reduction and analysis of sensor data with respect to bench, static, dynamic, and flight tests, along with correlation with other space and avionics payloads, sensors, and related systems technology. (CDRL A003, A007, A008)

#### **3.2 System Engineering**

The Contractor shall provide technical expertise for system interface definitions, interoperability and performance assessments, and design alternatives for space, launch, and terrestrial systems. The Contractor shall meet with NRL engineers, scientists, users, and other agencies designated by the Contracting Officer's

Representative (COR) to document system requirements. The contractor shall generate: system performance requirements documents and specifications, project requirements, product assessments, and the analysis and test of the technical performance.

The Contractor shall document technical specifications in COR approved formats. The Contractor shall coordinate and develop interface control documents (ICD) required in the interoperability design and assessment. The Contractor shall monitor and support systems engineering activities, review and develop related documentation, participate in the conceptualization of a system design, and provide for integrated logistical and systems engineering planning. Contractor tasks include experiment requirements definition, system requirements allocation, system design and analysis, and test requirements definition and planning.

The Contractor shall prepare technical assessments and reports to identify, recommend, and implement resolutions of critical design and/or performance deficiencies. The Contractor shall provide system-level integration test plans and procedures and shall originate technical orientation briefings. The Contractor shall review hardware, automated systems, operations, facilities, and management documents for compliance with the project-established standards and plans. (CDRL A003, A007, A008)

### **3.3 Quick Reaction**

The Contractor shall become familiar with existing NRL equipment and program assets (e.g., Blossom Point Command and Tracking Facility, Transportable Ground Station (TGS), Launch Control Center (LCC), Mission Operations Center (MOC) and the Portable Ground Station (PGS)) to maximize use of non-developmental items (NDI) in a Quick Reaction Capability (QRC) situation. The contractor shall provide QRC feasibility investigations and analyses in specific space, terrestrial, and launch system technology research areas and in the areas related to the tasks described herein. The Contractor shall participate in all aspects of QRC efforts to include flight test and other system tests and evaluation projects (such as image data collection and processing, launch support, electronic command and control, and interface operating functions). The contractors shall use NRL Government Furnished Equipment (GFE) in the deployment, installation, and operation of these systems. The contractor shall support NRL in performing appropriate engineering design, component integration, and test of deployable command and control subsystems. The Contractor shall perform technical analyses, trade studies, and risk analyses. The contractor shall document and present the evaluations, resultant designs, and recommendations for enhancement to the Contracting Officer's Representative (COR). (CDRL A003, A007, A008)

### **3.4 Demonstration and Operations**

The contractor shall support capability and performance testing, and application demonstrations of NRL space and ground systems. The Contractor shall provide systems analysis, design ; documentation, integration and test, and logistics to support demonstration efforts. These efforts will include using Advanced Technology Demonstrations (ATD's), operational test beds and imagery displays, and command and control of prototype as well as one-of-a-kind systems. (CDRL A003, A007, A008)

### **3.5 Design and Integration**

The contractor shall provide the engineering effort to support NRL in the design of space vehicle systems per approved program requirements and the contractor shall review the design and analysis of the space vehicle system. The contractor shall consider the development of alternate design approaches for propulsion, avionics, and structures. The contractor shall initiate design and checkout of the software necessary for operation and test of the space vehicle and its subsystems (CDRL A003, A007, A008)

### **3.6 Ground Systems**

The Contractor shall support the design and development of ground segment and related flight operations infrastructure. Such ground systems will support the command, control, and communications elements of the ground segment, along with the payload tasking, collection, and data processing functions. The design for the ground segment shall be consistent with the requirements established in the Spacecraft-to-Ground Segment Specification and related ICDs. The Contractor shall present the system trades, special studies, and the recommended system design approach during design reviews. The Contractor shall design, fabricate, procure, modify, and adapt Ground Support Equipment (GSE) to support spacecraft, payload, and launch vehicle processing requirements. Typical GSE elements will include: Mechanical and Electrical Aerospace Ground Support Equipment (MAGE/EAGE), thermal chambers (vacuum/cycle/shock), ordnance systems, Engineering Development Models (EDM) and related support structures, environmental test data acquisition systems, command and data handling systems, wiring harnesses, and supporting engineering design systems (e.g., CAD/CAM). (CDRL A003, A007, A008)

### **3.7 Image Processing**

The contractor shall conceptualize and implement methodologies for the collection, implementation, and archival of imaging data from space and airborne platforms. The contractor shall develop and operate systems for converting realtime imagery on to storage media and processing the data into standard datasets. Data



products shall be made available using a mix of NRL and other archival assets using commercial, non-proprietary browsers and standard media. Equipment procurement requirements definition is included in this task. (CDRL A003, A007, A008)

### **3.8 General Laboratory Support**

The contractor shall design, procure, fabricate, assemble, test, calibrate, and maintain specialized laboratory equipment, models and test beds, MAGE/EAGE, GSE, instrumentation, and their support facilities. (CDRL A003, A007, A008)

### **3.9 Payload Processing**

The Contractor shall provide engineering services to support the requirements of the selected launch range(s). These activities include the review of facility provisions, assessment of the launch range requirements for each mission, and verification that the requirements are met. This task shall include coordination with the applicable range safety and logistical personnel to plan, assemble, consolidate, and control the information necessary to assure a safe and efficient launch operation according to the requirements set forth in applicable launch and test range regulations.

The Contractor shall conduct preliminary planning necessary to determine spacecraft and launch vehicle integration requirements, launch operations, and aerospace support equipment requirements.

The Contractor shall become familiar with existing NRL test plans, detailed operating procedures, and safety hazard reports. The contractor shall utilize these existing documents to the maximum extent possible. The Contractor shall provide technical support to the payload and launch vehicle working groups with respect to payload development, launch vehicle integration, training, launch processing, pre-flight and post-flight operations, and all related activities for a particular mission.

The Contractor shall provide documentation for the payload and launch vehicle processing activities. This shall include data, experiment and spacecraft ground controls, plans and procedures, launch vehicle and spacecraft verifications, ground simulations and controls, and functional tests to support the processing and integration environment. The Contractor shall develop, maintain, and revise detailed operating procedures as required by ground tests, hardware and software functional tests, and ground crew training.

The Contractor shall apply safety engineering and safety management principles, criteria, and techniques as a formal system safety program to optimize safety and enhance mission effectiveness within the constraints of operational effectiveness, time, and cost.

The contractor shall develop safety procedures that incorporate early hazard identification and evaluation. In addition, to preclude system damage or injury to personnel, the contractor shall devise safety procedures designed to eliminate and/or reduce residual risks. All contractor activities shall interface and coordinate with the NRL's designated Safety Manager in defining and implementing the requirements defined herein. (CDRL A003, A007, A008)

### **3.10 Technical Documentation**

The contractor shall be responsible for technical writing and editing associated with the approved technology tasks, related investigations and analyses, and flight test evaluations. The contractor shall document information generated under this effort that relates to: concept development, specifications, interface development and control, designs, plans, procedures, processes, tests, operations, or other stipulated SOW activity. The contractor shall use appropriate techniques in the development of documents, specifications, plans, procedures, drawings, test data, operating instructions, electrical and electronic schematics, and reference data. The contractor shall be responsible to review and edit all types of technical manuals, reports, and documentation for accuracy, literacy, and technical content. The contractor shall deliver documentation in the COR-specified formats. Using the guidelines provided by the COR, the contractor shall provide technical data packages and conference minutes that document the design and developmental efforts. The contractor shall maintain a library of generated materials and provide duplicates or soft copies as requested. (CDRL A003, A004, A005, A006, A007, A008)

### **3.11 Media and Graphics**

The Contractor shall obtain, store, maintain, and reproduce technical data as appropriate to fulfill the other SOW requirements. The Contractor shall develop and provide technical orientation briefings and documentation (black/white and color) in the form of graphics transparencies and slides (8"x10" view graph format), posterboard charts, and multi-media videos. The contractor shall consolidate and prepare submissions from Government and other sources in NRL specified formats. The contractor shall provide publication and editing services including graphics, multimedia and SGML/HTML documents, video scripting, all-digital video for engineering presentations, document preparation, technical editing, and reproduction. The Contractor shall issue and maintain a current project catalogue of common graphical elements, and shall make all such graphics available to project personnel through various communications channels. The Contractor shall prepare briefing materials for use in presentations to NRL and Sponsor management and for other conferences, program, or review meetings. The Contractor shall provide logistical support for various meetings, reviews, and conferences. (CDRL A004, A005)

### **3.12 Project Analysis, Reporting, and Support**

The contractor shall provide technical project analysis and support. The contractor shall review and assess technical project elements and mechanisms, work breakdown structures, project forecasting methods, planning and budget models, project schedule and related tracking mechanisms (i.e. network charts), coordination of project assets, and logistical support. (CDRL A001, A002, A009)

#### **4. ACRONYMS**

A list of acronyms and meanings are provided below:

|                  |  |       |   |
|------------------|--|-------|---|
| AGE              | Aerospace Ground Equipment                         | LACE  | Low Power Atmospheric Compensation Experiment |
| ATD              | Advanced Technology Demonstration                  | LAN   | Local Area Network                            |
| ATM              | Asynchronous Transfer Mode                         | LCC   | Launch Control Center                         |
| BiaTECH          | Breakout Information Age Technology                | MAGE  | Mechanical AGE                                |
| BMDO             | Ballistic Missile Defense Organization             | MPTB  | Microelectronics Photonics Test Bed           |
| BOE              | Basis Of Estimate                                  | NASA  | National Aeronautics and Space Administration |
| BP               | Blossom Point                                      | NCST  | Naval Center For Space Technology             |
| C <sup>4</sup> I | Command, Control, Communications, and Intelligence | NRL   | Naval Research Laboratory                     |
| CALS             | Computer Aided Logistics System                    | ODC   | Other Direct Costs                            |
| CDR              | Critical Design Review                             | PC    | Personal Computer                             |
| CDRL             | Contract Data Requirements List                    | PDR   | Preliminary Design Review                     |
| COR              | Contracting Officer's Representative               | QRC   | Quick Reaction Capability                     |
| COTS             | Commercial Off-The-Shelf                           | R&D   | Research and Development                      |
| CPM              | Critical Path Method                               | RDT&E | Research, Development, Test, and Evaluation   |
| CWBS             | Contract Work Breakdown Structure                  | SCSI  | Small Computer Systems Interface              |
| DMSP             | Defense Meteorological Satellite Program           | SGML  | Standard General Markup Language              |
| DMSP             | Defense Meteorological Support Program             | SOW   | Statement Of Work                             |
| DoD              | Department Of Defense                              | SSULI | Special Sensor Ultraviolet Limb Imager        |
| DPPH             | Direct Productive Person Hours                     | TBD   | To Be Determined                              |
| DSPSE            | Deep Space Program Science Experiment              | TDM   | Technical Direction Memorandums               |
| EAGE             | Electrical AGE                                     | TiPS  | Tether Physics and Survivability Experiment   |
| FPGA             | Field Programmable Gate Array                      | UAV   | Unmanned Aerial Vehicle                       |
| G&A              | General and Administrative                         | WAN   | Wide Area Network                             |
| GFE              | Government Furnished Equipment                     | WBS   | Work Breakdown Structures                     |
| GSE              | Ground Support Equipment                           |       |   |
| HRST             | Hyperspectral Remote Sensing Technology            |       |   |
| HTML             | Hypertext Markup Language                          |       |   |
| ICD              | Interface Control Documents                        |       |   |
| ICE              | Independent Cost Estimates                         |       |   |
| ICM              | Interim Control Module                             |       |   |
| IDM              | Improved Data Modem                                |       |   |

# CONTRACT DATA REQUIREMENTS LIST

Form Approved  
OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0701-0188), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please DO NOT RETURN your form to the above address. Send completed form to the Government Issuing

| <b>A. CONTRACT LINE ITEM NO.</b><br>ALL  |     |  |  | <b>B. EXHIBIT</b><br>A                                    |  | <b>C. CATEGORY:</b><br>TDP _____ TM- _____ OTHER _____   |  |  |  |       |  |       |     |  |   |
|--|-----|--|--|---|--|--|--|--|--|-------|--|-------|-----|--|---|
| <b>D. SYSTEM / ITEM</b><br>Sys. Eng. Analysis & Tech. Support  |     |  |  | <b>E. CONTRACT / PR NO.</b><br>N00173-02-R-LS02           |  | <b>F. CONTRACTOR</b>   |  |  |  |       |  |       |     |  |   |
| <b>1. DATA ITEM NO.</b><br>A001  |     | <b>2. TITLE OF DATA ITEM</b><br>Progress Status and Management Report    |  |   |  | <b>3. SUBTITLE</b>   |  |  |  |       |  |       |     |  |   |
| <b>4. AUTHORITY</b> (Data Acquisition Document No.)  |     |  |  | <b>5. CONTRACT REFERENCE</b><br>SOW Paragraph 3.12        |  | <b>6. REQUIRING OFFICE</b><br>NRL, COR   |  |  |  |       |  |       |     |  |   |
| <b>7. DD 250 REQ</b><br>LT   |     | <b>9. DIST STATEMENT REQUIRED</b>  |  | <b>10. FREQUENCY</b><br>MTHLY                             |  | <b>12. DATE OF FIRST SUBMISSION</b><br>30 DAC  |  | <b>14. DISTRIBUTION</b>                                      |  |       |  |       |     |  |   |
| <b>8. APP CODE</b>   |     |  |  | <b>11. AS OF DATE</b><br>Contract Award                   |  | <b>13. DATE OF SUBSEQUENT SUBMISSION</b><br>60 DAC   |  | <b>a. ADDRESSEE</b><br>COR<br><br><br><br><b>15. TOTAL</b> → |  |       |  |       |     |  |   |
| <b>16. REMARKS</b><br>Must include progress and status of all work in progress and work completed, including procurements; Must provide current status, plans for next month, and any potential problems or areas of concern.                  |     |  |  |   |  | <b>b. COPIES</b><br><table border="1"> <tr> <th colspan="2">Final</th> </tr> <tr> <td>Draft</td> <td>Reg</td> </tr> <tr> <td></td> <td>1</td> </tr> </table> |  |  |  | Final |  | Draft | Reg |  | 1 |
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| <b>1. DATA ITEM NO.</b><br>A002  |     | <b>2. TITLE OF DATA ITEM</b><br>Funds and Labor Hours Expenditure Report |  |   |  | <b>3. SUBTITLE</b>   |  |  |  |       |  |       |     |  |   |
| <b>4. AUTHORITY</b> (Data Acquisition Document No.)  |     |  |  | <b>5. CONTRACT REFERENCE</b><br>SOW Paragraph 3.12        |  | <b>6. REQUIRING OFFICE</b><br>NRL, COR   |  |  |  |       |  |       |     |  |   |
| <b>7. DD 250 REQ</b><br>LT   |     | <b>9. DIST STATEMENT REQUIRED</b>  |  | <b>10. FREQUENCY</b><br>MTHLY                             |  | <b>12. DATE OF FIRST SUBMISSION</b><br>30 DAC  |  | <b>14. DISTRIBUTION</b>                                      |  |       |  |       |     |  |   |
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| <b>16. REMARKS</b><br>This report may be required upon request within 24 hours notice as directed through Technical Direction Memorandum in contractor's format.   |     |  |  |   |  | <b>b. COPIES</b><br><table border="1"> <tr> <th colspan="2">Final</th> </tr> <tr> <td>Draft</td> <td>Reg</td> </tr> <tr> <td></td> <td>1</td> </tr> </table> |  |  |  | Final |  | Draft | Reg |  | 1 |
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| <b>1. DATA ITEM NO.</b><br>A003  |     | <b>2. TITLE OF DATA ITEM</b><br>Technical Report (s)                     |  |   |  | <b>3. SUBTITLE</b>   |  |  |  |       |  |       |     |  |   |
| <b>4. AUTHORITY</b> (Data Acquisition Document No.)  |     |  |  | <b>5. CONTRACT REFERENCE</b><br>SOW Paragraphs 3.1-3.10   |  | <b>6. REQUIRING OFFICE</b><br>NRL, COR   |  |  |  |       |  |       |     |  |   |
| <b>7. DD 250 REQ</b><br>LT   |     | <b>9. DIST STATEMENT REQUIRED</b>  |  | <b>10. FREQUENCY</b><br>ASREQ                             |  | <b>12. DATE OF FIRST SUBMISSION</b><br>See block 16.   |  | <b>14. DISTRIBUTION</b>                                      |  |       |  |       |     |  |   |
| <b>8. APP CODE</b>   |     |  |  | <b>11. AS OF DATE</b><br>Contract Award                   |  | <b>13. DATE OF SUBSEQUENT SUBMISSION</b>   |  | <b>a. ADDRESSEE</b><br>COR<br><br><br><br><b>15. TOTAL</b> → |  |       |  |       |     |  |   |
| <b>16. REMARKS</b><br>Provide a detailed description of the precise nature and results accomplished of any required studies or analyses within 30 days from government request; In Contractor's format and prefaced with an executive summary. |     |  |  |   |  | <b>b. COPIES</b><br><table border="1"> <tr> <th colspan="2">Final</th> </tr> <tr> <td>Draft</td> <td>Reg</td> </tr> <tr> <td></td> <td>1</td> </tr> </table> |  |  |  | Final |  | Draft | Reg |  | 1 |
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| <b>1. DATA ITEM NO.</b><br>A004  |     | <b>2. TITLE OF DATA ITEM</b><br>Presentation and Briefing Materials      |  |   |  | <b>3. SUBTITLE</b>   |  |  |  |       |  |       |     |  |   |
| <b>4. AUTHORITY</b> (Data Acquisition Document No.)  |     |  |  | <b>5. CONTRACT REFERENCE</b><br>SOW Paragraphs 3.10, 3.11 |  | <b>6. REQUIRING OFFICE</b><br>NRL, COR   |  |  |  |       |  |       |     |  |   |
| <b>7. DD 250 REQ</b><br>LT   |     | <b>9. DIST STATEMENT REQUIRED</b>  |  | <b>10. FREQUENCY</b><br>ASREQ                             |  | <b>12. DATE OF FIRST SUBMISSION</b><br>See Block 16.   |  | <b>14. DISTRIBUTION</b>                                      |  |       |  |       |     |  |   |
| <b>8. APP CODE</b>   |     |  |  | <b>11. AS OF DATE</b><br>Contract Award                   |  | <b>13. DATE OF SUBSEQUENT SUBMISSION</b>   |  | <b>a. ADDRESSEE</b><br>COR<br><br><br><br><b>15. TOTAL</b> → |  |       |  |       |     |  |   |
| <b>16. REMARKS</b><br>Detail ideas & concepts being presented using graphic and textual elements in a draft within 1 week from receipt of all materials. Final submission required NLT 48 hrs. from receipt of final approval.                 |     |  |  |   |  | <b>b. COPIES</b><br><table border="1"> <tr> <th colspan="2">Final</th> </tr> <tr> <td>Draft</td> <td>Reg</td> </tr> <tr> <td></td> <td>1</td> </tr> </table> |  |  |  | Final |  | Draft | Reg |  | 1 |
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| <b>G. PREPARED BY</b><br>NRL COR   |     |  |  | <b>H. DATE</b><br>12/15/01                                |  | <b>I. APPROVED BY</b>  |  | <b>J. DATE</b>   |  |       |  |       |     |  |   |

|                                  |
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| <b>17. PRICE GROUP</b>           |
| <b>18. ESTIMATED TOTAL PRICE</b> |

|                                  |
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| <b>17. PRICE GROUP</b>           |
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# CONTRACT DATA REQUIREMENTS LIST

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| <b>A. CONTRACT LINE ITEM NO.</b><br>ALL   |     |   |  | <b>B. EXHIBIT</b><br>A                                    |  | <b>C. CATEGORY:</b><br>TDP _____ TM- _____ OTHER _____   |  |  |  |       |  |       |     |  |   |
|---|-----|---|--|---|--|--|--|--|--|-------|--|-------|-----|--|---|
| <b>D. SYSTEM / ITEM</b><br>Sys. Eng. Analysis & Tech. Support   |     |   |  | <b>E. CONTRACT / PR NO.</b><br>N00173-02-R-LS02           |  | <b>F. CONTRACTOR</b>   |  |  |  |       |  |       |     |  |   |
| <b>1. DATA ITEM NO.</b><br>A005   |     | <b>2. TITLE OF DATA ITEM</b><br>Presentation and Briefing Materials CD-ROM            |  |   |  | <b>3. SUBTITLE</b>   |  |  |  |       |  |       |     |  |   |
| <b>4. AUTHORITY</b> (Data Acquisition Document No.)   |     |   |  | <b>5. CONTRACT REFERENCE</b><br>SOW Paragraphs 3.10, 3.11 |  | <b>6. REQUIRING OFFICE</b><br>NRL, COR   |  |  |  |       |  |       |     |  |   |
| <b>7. DD 250 REQ</b><br>LT  |     | <b>9. DIST STATEMENT REQUIRED</b>   |  | <b>10. FREQUENCY</b><br>QTRLY                             |  | <b>12. DATE OF FIRST SUBMISSION</b><br>90 DAC  |  | <b>14. DISTRIBUTION</b>                                      |  |       |  |       |     |  |   |
| <b>8. APP CODE</b>  |     |   |  | <b>11. AS OF DATE</b><br>Contract Award                   |  | <b>13. DATE OF SUBSEQUENT SUBMISSION</b>   |  | <b>a. ADDRESSEE</b><br>COR<br><br><br><br><b>15. TOTAL</b> → |  |       |  |       |     |  |   |
| <b>16. REMARKS</b><br>Provide COR with a CD-ROM copy of all technical documents, briefing packages, pamphlets, etc., that were completed under the contract during the current quarter.                           |     |   |  |   |  | <b>b. COPIES</b><br><table border="1"> <tr> <th colspan="2">Final</th> </tr> <tr> <td>Draft</td> <td>Reg</td> </tr> <tr> <td></td> <td>1</td> </tr> </table> |  |  |  | Final |  | Draft | Reg |  | 1 |
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| <b>1. DATA ITEM NO.</b><br>A006   |     | <b>2. TITLE OF DATA ITEM</b><br>Conference Minutes                                    |  |   |  | <b>3. SUBTITLE</b>   |  |  |  |       |  |       |     |  |   |
| <b>4. AUTHORITY</b> (Data Acquisition Document No.)   |     |   |  | <b>5. CONTRACT REFERENCE</b><br>SOW Paragraph 3.10        |  | <b>6. REQUIRING OFFICE</b><br>NRL, COR   |  |  |  |       |  |       |     |  |   |
| <b>7. DD 250 REQ</b><br>LT  |     | <b>9. DIST STATEMENT REQUIRED</b>   |  | <b>10. FREQUENCY</b><br>ASREQ                             |  | <b>12. DATE OF FIRST SUBMISSION</b><br>ASREQ   |  | <b>14. DISTRIBUTION</b>                                      |  |       |  |       |     |  |   |
| <b>8. APP CODE</b>  |     |   |  | <b>11. AS OF DATE</b><br>Contract Award                   |  | <b>13. DATE OF SUBSEQUENT SUBMISSION</b>   |  | <b>a. ADDRESSEE</b><br>COR<br><br><br><br><b>15. TOTAL</b> → |  |       |  |       |     |  |   |
| <b>16. REMARKS</b><br>Provide these "Minutes" within 24 hours following a conference held with the Government. These "Minutes" may be submitted in the contractor's format.                                       |     |   |  |   |  | <b>b. COPIES</b><br><table border="1"> <tr> <th colspan="2">Final</th> </tr> <tr> <td>Draft</td> <td>Reg</td> </tr> <tr> <td></td> <td>1</td> </tr> </table> |  |  |  | Final |  | Draft | Reg |  | 1 |
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| <b>1. DATA ITEM NO.</b><br>A007   |     | <b>2. TITLE OF DATA ITEM</b><br>Integration, Test and Evaluation Plans and Procedures |  |   |  | <b>3. SUBTITLE</b>   |  |  |  |       |  |       |     |  |   |
| <b>4. AUTHORITY</b> (Data Acquisition Document No.)   |     |   |  | <b>5. CONTRACT REFERENCE</b><br>SOW Paragraph 3.1-3.10    |  | <b>6. REQUIRING OFFICE</b><br>NRL, COR   |  |  |  |       |  |       |     |  |   |
| <b>7. DD 250 REQ</b><br>LT  |     | <b>9. DIST STATEMENT REQUIRED</b>   |  | <b>10. FREQUENCY</b><br>ASREQ                             |  | <b>12. DATE OF FIRST SUBMISSION</b><br>ASREQ   |  | <b>14. DISTRIBUTION</b>                                      |  |       |  |       |     |  |   |
| <b>8. APP CODE</b>  |     |   |  | <b>11. AS OF DATE</b><br>Contract Awd                     |  | <b>13. DATE OF SUBSEQUENT SUBMISSION</b>   |  | <b>a. ADDRESSEE</b><br>COR<br><br><br><br><b>15. TOTAL</b> → |  |       |  |       |     |  |   |
| <b>16. REMARKS</b><br>The contractor shall submit these plans and procedures as required by Technical Direction Memorandum (TDM) and following the guidelines of MIL-STD-1540 & MIL-HBK-343                       |     |   |  |   |  | <b>b. COPIES</b><br><table border="1"> <tr> <th colspan="2">Final</th> </tr> <tr> <td>Draft</td> <td>Reg</td> </tr> <tr> <td></td> <td>1</td> </tr> </table> |  |  |  | Final |  | Draft | Reg |  | 1 |
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| <b>1. DATA ITEM NO.</b><br>A008   |     | <b>2. TITLE OF DATA ITEM</b><br>See Block 16.   |  |   |  | <b>3. SUBTITLE</b>   |  |  |  |       |  |       |     |  |   |
| <b>4. AUTHORITY</b> (Data Acquisition Document No.)   |     |   |  | <b>5. CONTRACT REFERENCE</b><br>SOW Paragraphs 3.1-3.10   |  | <b>6. REQUIRING OFFICE</b><br>NRL, COR   |  |  |  |       |  |       |     |  |   |
| <b>7. DD 250 REQ</b><br>LT  |     | <b>9. DIST STATEMENT REQUIRED</b>   |  | <b>10. FREQUENCY</b><br>ASREQ                             |  | <b>12. DATE OF FIRST SUBMISSION</b><br>ASREQ   |  | <b>14. DISTRIBUTION</b>                                      |  |       |  |       |     |  |   |
| <b>8. APP CODE</b>  |     |   |  | <b>11. AS OF DATE</b><br>Contract Award                   |  | <b>13. DATE OF SUBSEQUENT SUBMISSION</b>   |  | <b>a. ADDRESSEE</b><br>COR<br><br><br><br><b>15. TOTAL</b> → |  |       |  |       |     |  |   |
| <b>16. REMARKS</b><br>The contractor shall provide Developmental Specifications, Interface Control Documents, & Management Plans as required by TDM and following the guidelines of MIL-STD-961 and MIL-HBK-2222. |     |   |  |   |  | <b>b. COPIES</b><br><table border="1"> <tr> <th colspan="2">Final</th> </tr> <tr> <td>Draft</td> <td>Reg</td> </tr> <tr> <td></td> <td>1</td> </tr> </table> |  |  |  | Final |  | Draft | Reg |  | 1 |
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| <b>G. PREPARED BY</b><br>NRL COR  |     |   |  | <b>H. DATE</b><br>12/15/01                                |  | <b>I. APPROVED BY</b>  |  | <b>J. DATE</b>   |  |       |  |       |     |  |   |

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| A. CONTRACT LINE ITEM NO.  |                            | B. EXHIBIT            |                                   | C. CATEGORY:                    |             |
| ALL  |                            | A                     |                                   | TDP _____ TM- _____ OTHER _____ |             |
| D. SYSTEM / ITEM   |                            | E. CONTRACT / PR NO.  |                                   | F. CONTRACTOR                   |             |
| Sys. Eng. Analysis & Tech. Support   |                            | N00173-02-R-LS02      |                                   |                                 |             |
| 1. DATA ITEM NO.   |                            | 2. TITLE OF DATA ITEM |                                   | 3. SUBTITLE                     |             |
| A009   |                            | Contract Final Report |                                   |                                 |             |
| 4. AUTHORITY (Data Acquisition Document No.)   |                            | 5. CONTRACT REFERENCE |                                   | 6. REQUIRING OFFICE             |             |
|  |                            | SOW Paragraph 3.12    |                                   | NRL COR                         |             |
| 7. DD 250 REQ  | 9. DIST STATEMENT REQUIRED | 10. FREQUENCY         | 12. DATE OF FIRST SUBMISSION      | 14. DISTRIBUTION                |             |
| DD   |                            | 1TIME                 | See Block 16.                     |                                 |             |
| 8. APP CODE  |                            | 11. AS OF DATE        | 13. DATE OF SUBSEQUENT SUBMISSION | a. ADDRESSEE                    | b. COPIES   |
|  |                            | Contract Award        |                                   |                                 | Draft Final |
|  |                            |                       |                                   |                                 | Reg Repro   |
| 16. REMARKS  |                            |                       |                                   | COR                             |             |
| The Contractor shall provide a detailed final report covering the entire contract period of performance in his own format. |                            |                       |                                   |                                 |             |
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| 4. AUTHORITY (Data Acquisition Document No.)   | 5. CONTRACT REFERENCE      |                       | 6. REQUIRING OFFICE               |                                 |             |
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| 7. DD 250 REQ  | 9. DIST STATEMENT REQUIRED | 10. FREQUENCY         | 12. DATE OF FIRST SUBMISSION      | 14. DISTRIBUTION                |             |
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| 16. REMARKS  |                            |                       |                                   |                                 |             |
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| 7. DD 250 REQ  | 9. DIST STATEMENT REQUIRED | 10. FREQUENCY         | 12. DATE OF FIRST SUBMISSION      | 14. DISTRIBUTION                |             |
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| 16. REMARKS  |                            |                       |                                   |                                 |             |
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| 16. REMARKS  |                            |                       |                                   |                                 |             |
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| 4. AUTHORITY (Data Acquisition Document No.)   | 5. CONTRACT REFERENCE      |                       | 6. REQUIRING OFFICE               |                                 |             |
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| 16. REMARKS  |                            |                       |                                   |                                 |             |
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| NRL COR  |                            | 12/15/01              |                                   |                                 |             |

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## **PERSONNEL QUALIFICATIONS**

Key personnel are indicated below:

### **Sr. Program Manager [Key Personnel]**

It is strongly desired that this individual have at least eight years experience in the area of program management or project leadership including at least five years as a program manager on projects involving NRL spaceflight systems or substantially equal satellite systems. At least four of the years of experience should be related to elements of the SOW. This individual must have a Bachelors degree in Science, Engineering, or Mathematics; a higher degree is further desirable.

The candidate should have demonstrated management experience in the definition, design, and development of aerospace systems. This position requires a thorough understanding of the DoD acquisition process, and technical program planning required to support the systems engineering management plan, including: risk analysis, engineering program integration, program reviews, technical performance measurement, interface control, documentation control, and planning for technical and program management tasks.

### **Principal Scientist, Theoretical/Experimental Physics [Key Personnel]**

It is strongly desired that this individual have at least eight years of directly applicable experience to conceptualize, analyze, solve, and accomplish the complex work required by the SOW. Four years of experience should be related to elements of the SOW. This individual must have a Ph.D. in one of the technical areas of Engineering, Physical Sciences, or Mathematics. The candidate should also have a demonstrated application of the principles, theories, and concepts in the complex work required by the SOW, particularly as it relates to advanced concept and prototype spacecraft systems, space and airborne systems, and launch systems. It is further desired that the candidate have demonstrated experience, knowledge, and familiarity with the specification, analysis, test, and integration of advanced lightweight optical sensors for spaceflight applications, including the reduction and analysis of post-flight image data.

### **Sr. Systems Engineer, Communications [Key Personnel]**

It is strongly desired that this individual have at least eight years of directly applicable experience to conceptualize, analyze, solve, and accomplish the complex work required by the SOW. Four years of experience must be related to elements of the SOW. It is also strongly desired that this individual have a Ph.D. in one of the technical areas of Engineering, Physical Sciences, or Mathematics, with a minimum requirement



being a Master's degree in one of these areas of study. He/she should have demonstrated experience, knowledge, and familiarity with the planning and execution of hardware and software development programs for spaceflight communications using Reduced Instruction Set Computing (RISC) processors, advanced compression algorithms and their related space-qualified chipsets, and design of ground image processors and displays. This candidate should have demonstrated knowledge of the C++ and Ada software languages, digital data links, and the concepts, protocols, and implementation of a multi-tier system providing intelligence, surveillance, and Command, Control, and Communications(C<sup>3</sup>) over multi-gigabit data links. It is further desired that this individual have a demonstrated knowledge of asynchronous transfer mode (ATM) with the expertise and capability to specify and develop ATM protocols for use in terrestrial communications systems.

**Sr. Systems Engineer, Software [Key Personnel]**

It is strongly desired that this individual have at least five years of directly applicable experience to analyze, solve, and accomplish the complex work required by the SOW. This individual must have a Master's degree in the technical areas of Engineering, Physical Sciences, or Mathematics. He/she should have demonstrated the application of the principles, theories, and concepts in the complex work required by the SOW, particularly as it relates to advanced concept and prototype spacecraft systems, space and airborne systems, and launch systems. The candidate should have further demonstrated experience, knowledge, and familiarity with the planning, execution, and documentation of software development programs. In addition, the candidate should also have demonstrated the capability to perform the systems analysis, simulation, algorithm design, and system evaluation required to design and implement complex realtime software systems using assembly, C, FORTRAN, and C++ programming languages. Finally, the candidate should have a demonstrated knowledge of ATM with the expertise and capability to specify and develop ATM protocols for use in terrestrial communications systems.

**Systems Engineer, Terrestrial Systems [Key Personnel]**

It is strongly desired that this individual have at least eight years of directly applicable experience to analyze, solve, and accomplish the complex work required by the SOW. This individual must have a Bachelor's degree in one of the technical areas of Engineering, Physical Sciences, or Mathematics. In addition, the candidate should have a demonstrated application of the principles, theories, and concepts in the complex work required by the SOW, particularly as it relates to advanced concept and prototype spacecraft systems, space and airborne systems, and launch systems. The candidate should have demonstrated experience, knowledge, and familiarity with the analysis, research, design, development, test, and evaluation of complex digital hardware and software development programs, particularly as these developments relate to specific spaceflight and related terrestrial equipment developed by the NRL. It

is further desired that this candidate have demonstrated engineering experience related to the electrical analysis, design, integration, and test of digital processors, Application Specific Integrated Circuits (ASICs), field programmable gate arrays (FPGA), and their related development systems, as well as the demonstrated capability with various state-of-the-art processors.

**Sr. Systems Engineer, Guidance, Navigation, and Controls [Key Personnel]**

It is strongly desired that this individual have at least eight years of directly applicable experience to conceptualize, analyze, solve, and accomplish the complex work required by the SOW. Four years of the aforementioned experience must be related to elements of the SOW. This individual must have obtained a Master of Science in the technical areas of Aerospace Engineering, Physical Sciences, or Mathematics. He/she should also have a demonstrated application of the principles, theories, and concepts in the complex work required by the SOW, particularly as it relates to advanced concept and prototype spacecraft systems, space and airborne systems, and launch systems.

He/she should have demonstrated experience, knowledge, and familiarity with: developing mathematical and computer models of control theory to provide performance assessments of the attitude determination and control systems for spaceflight vehicles; demonstrated capability to analyze control systems and develop mathematical models, computer simulations, and spacecraft simulator software supporting stability analysis, parametric sensitivity, control loops, and system responses; and demonstrated capability and experience developing custom software for control system modeling and prediction of system responses, with specific experience in realtime software systems, including requirements analysis, development, and testing. It is finally desired that this candidate have a demonstrated capability to interface and support the flight operations staff in attitude determination and control, control system configuration, and anomaly resolution.

**Engineer, Digital Hardware or Software**

It is strongly desired that this individual have at least four years of directly applicable experience to analyze, solve, and accomplish the complex work required by the SOW. This individual must have obtained a Bachelor's degree in one of the technical areas of Engineering, Physical Sciences, or Mathematics. The candidate should also have a demonstrated application of the principles, theories, and concepts in the complex work required by the SOW, particularly as it relates to advanced concept and prototype spacecraft systems, space and airborne systems, and launch systems. He/she should have a demonstrated understanding of: specifying, developing, and documenting a developmental test program; conducting systems level environmental and reliability tests; documenting acceptance tests in formal plans and procedures; and

planning and conducting tests and demonstrations in conjunction with an integrating contractor.

### **Engineer, General Design and Support**

It is strongly desired that this individual have at least four years of directly applicable experience to analyze, solve, and accomplish the complex work required by the SOW. This individual must have a bachelor's degree in one of the technical areas of Engineering, Physical Sciences, or Mathematics. In addition, he/she should have a demonstrated application of the principles, theories, and concepts in the complex work required by the SOW, particularly as it relates to advanced concept and prototype spacecraft systems, space and airborne systems, and launch systems. The candidate should also have a demonstrated understanding of: specifying, developing, and documenting a developmental test program; conducting systems level environmental and reliability tests; documenting acceptance tests in formal plans and procedures; and planning and conducting demonstrations in conjunction with an integrating contractor.

### **Project Analyst**

The project analyst must possess a bachelor's degree. It is strongly desired that he/she have at least four years of experience in physical science, engineering, math, physics, or aerospace. It is further desired that he/she have a minimum of four years of experience related to elements of the SOW. The candidate should have a demonstrated understanding of specifying, developing, and documenting a developmental spaceflight test program; developing systems-level environmental and reliability test procedures; documenting acceptance tests in formal plans and procedures; and planning and conducting payload and launch tests and demonstrations in conjunction with an integrating contractor.

### **Technical Writer/Editor**

The candidate must possess a bachelor's degree preferably in Engineering, Journalism, Economics, or English. It is strongly desired that he/she have four years of directly applicable experience to analyze, solve, and accomplish the complex work required by the SOW. The position requires proficiency with PC and Macintosh™ cross-platform word processing and spreadsheet programs (e.g., FRAMEMAKER™, WORD™, EXCEL™, FILEMAKER PRO™). The candidate should have a demonstrated capability to coordinate, prepare, edit, and proof technical specifications, plans, procedures, and documents related to space and launch vehicle programs. The candidate should also have a working knowledge of the requirements for military technical manuals in a computer-aided logistics systems (CALS) environment. Finally, the candidate should have a demonstrated capability to collect, compile, and track technical data and comments thereto, to include the documentation and tracking of Contract Data Requirements Lists (CDRLs).

**Sr. Computer Graphics Artist**

The Senior Computer Graphics Artist must possess a bachelor's degree. It is strongly desired that he/she have at least five years of directly applicable experience in the creation of original artwork for technical, scientific, and presentation purposes. In addition, to the aforementioned experience it is also desired that the candidate have demonstrated experience in the rendering of complex aerospace artwork that incorporates Macintosh™ applications programs that are available for technical drawing, drafting, rendering, and shading, e.g., ADOBE ILLUSTRATOR™ and PHOTOSHOP™, POWERPOINT™, CLARISDraw™, ALDUS FREEHAND™, MINI-CAD™, FETCH™, and FASTRACK™. The candidate must have experience, knowledge, and familiarity with the various computer file formats used to store and translate computer text and graphics files, including TIFF, EPS, and PICT. The candidate should also have experience in setting up large graphics, clip art, and presentation server files and maintaining those files for ready access by multiple graphics personnel. The candidate must be familiar with the setup and operation of Macintosh related products, including scanners, SCSI drives, LANs, and other peripheral devices. The candidate should also possess working knowledge of digital, on-line non-linear video editing on a standard multi-media Macintosh™ platform.

**Administrative, Clerical, and Graphics Support**

This category covers all candidates who support the assignments of the engineering and technical personnel. The candidate's duties include non-technical writing, word-processing, proofreading, general computer art, pasteups, database maintenance, and reference checking. The candidate generally requires some supervision and exercises limited judgment and/or discretion. The task requires a high school diploma with three years of experience in the above listed duties. Candidates should have experience with standard PC and Macintosh™ cross-platform applications software, e.g., WORD™, EXCEL™, FILEMAKER PRO™.

|   |   |   |  |   |                 |   |     |    |  |     |    |   |          |  |   |  |          |                    |  |          |                                      |  |          |   |  |          |   |          |  |                             |  |          |  |  |          |                             |  |  |                          |  |          |   |  |          |   |  |          |             |  |          |  |  |          |                               |  |          |                             |          |  |                     |  |          |                              |  |          |                                   |  |          |  |  |          |                                      |  |          |   |  |          |                                      |  |          |                           |          |  |                           |  |  |                         |  |  |
|---|---|---|--|---|-----------------|---|-----|----|--|-----|----|---|----------|--|---|--|----------|--------------------|--|----------|--------------------------------------|--|----------|---|--|----------|---|----------|--|-----------------------------|--|----------|--|--|----------|-----------------------------|--|--|--------------------------|--|----------|---|--|----------|---|--|----------|-------------|--|----------|--|--|----------|-------------------------------|--|----------|-----------------------------|----------|--|---------------------|--|----------|------------------------------|--|----------|-----------------------------------|--|----------|--|--|----------|--------------------------------------|--|----------|---|--|----------|--------------------------------------|--|----------|---------------------------|----------|--|---------------------------|--|--|-------------------------|--|--|
| <b>DEPARTMENT OF DEFENSE<br/>CONTRACT SECURITY CLASSIFICATION SPECIFICATION</b><br><i>(The requirements of the DoD Industrial Security Manual apply to all security aspects of this effort.)</i>  |   |   |  | <b>1. CLEARANCE AND SAFEGUARDING</b> SER:059-01<br>a. FACILITY CLEARANCE REQUIRED<br><div style="text-align: center;"><b>SECRET</b></div> b. LEVEL OF SAFEGUARDING REQUIRED<br><div style="text-align: center;"><b>SECRET</b></div> |                 |   |     |    |  |     |    |   |          |  |   |  |          |                    |  |          |                                      |  |          |   |  |          |   |          |  |                             |  |          |  |  |          |                             |  |  |                          |  |          |   |  |          |   |  |          |             |  |          |  |  |          |                               |  |          |                             |          |  |                     |  |          |                              |  |          |                                   |  |          |  |  |          |                                      |  |          |   |  |          |                                      |  |          |                           |          |  |                           |  |  |                         |  |  |
| <b>2. THIS SPECIFICATION IS FOR:</b> <i>(X and complete as applicable)</i>  |   |   |  | <b>3. THIS SPECIFICATION IS:</b> <i>(X and complete as applicable)</i>  |                 |   |     |    |  |     |    |   |          |  |   |  |          |                    |  |          |                                      |  |          |   |  |          |   |          |  |                             |  |          |  |  |          |                             |  |  |                          |  |          |   |  |          |   |  |          |             |  |          |  |  |          |                               |  |          |                             |          |  |                     |  |          |                              |  |          |                                   |  |          |  |  |          |                                      |  |          |   |  |          |                                      |  |          |                           |          |  |                           |  |  |                         |  |  |
| a. PRIME CONTRACT NUMBER  |   | a. ORIGINAL <i>(Complete date in all cases)</i>   |  | DATE (YYYYMMDD)<br>20011205   |                 |   |     |    |  |     |    |   |          |  |   |  |          |                    |  |          |                                      |  |          |   |  |          |   |          |  |                             |  |          |  |  |          |                             |  |  |                          |  |          |   |  |          |   |  |          |             |  |          |  |  |          |                               |  |          |                             |          |  |                     |  |          |                              |  |          |                                   |  |          |  |  |          |                                      |  |          |   |  |          |                                      |  |          |                           |          |  |                           |  |  |                         |  |  |
| b. SUBCONTRACT NUMBER   |   | b. REVISED <i>(Supersedes all previous specs)</i> |  | REVISION NO.  | DATE (YYYYMMDD) |   |     |    |  |     |    |   |          |  |   |  |          |                    |  |          |                                      |  |          |   |  |          |   |          |  |                             |  |          |  |  |          |                             |  |  |                          |  |          |   |  |          |   |  |          |             |  |          |  |  |          |                               |  |          |                             |          |  |                     |  |          |                              |  |          |                                   |  |          |  |  |          |                                      |  |          |   |  |          |                                      |  |          |                           |          |  |                           |  |  |                         |  |  |
| <b>X</b>  | c. SOLICITATION OR OTHER NUMBER<br>81-3003-02 | DUE DATE (YYYYMMDD)                               | c. FINAL <i>(Complete item 5 in all cases)</i>   |   | DATE (YYYYMMDD) |   |     |    |  |     |    |   |          |  |   |  |          |                    |  |          |                                      |  |          |   |  |          |   |          |  |                             |  |          |  |  |          |                             |  |  |                          |  |          |   |  |          |   |  |          |             |  |          |  |  |          |                               |  |          |                             |          |  |                     |  |          |                              |  |          |                                   |  |          |  |  |          |                                      |  |          |   |  |          |                                      |  |          |                           |          |  |                           |  |  |                         |  |  |
| <b>4. IS THIS A FOLLOW-ON CONTRACT?</b> <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO. If Yes, complete the following:<br>Classified material received or generated under _____ <i>(Preceding Contract Number)</i> is transferred to this follow-on contract.   |   |   |  |   |                 |   |     |    |  |     |    |   |          |  |   |  |          |                    |  |          |                                      |  |          |   |  |          |   |          |  |                             |  |          |  |  |          |                             |  |  |                          |  |          |   |  |          |   |  |          |             |  |          |  |  |          |                               |  |          |                             |          |  |                     |  |          |                              |  |          |                                   |  |          |  |  |          |                                      |  |          |   |  |          |                                      |  |          |                           |          |  |                           |  |  |                         |  |  |
| <b>5. IS THIS A FINAL DD FORM 254?</b> <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO. If Yes, complete the following:<br>In response to the contractor's request dated _____, retention of the classified material is authorized for the period of _____.   |   |   |  |   |                 |   |     |    |  |     |    |   |          |  |   |  |          |                    |  |          |                                      |  |          |   |  |          |   |          |  |                             |  |          |  |  |          |                             |  |  |                          |  |          |   |  |          |   |  |          |             |  |          |  |  |          |                               |  |          |                             |          |  |                     |  |          |                              |  |          |                                   |  |          |  |  |          |                                      |  |          |   |  |          |                                      |  |          |                           |          |  |                           |  |  |                         |  |  |
| <b>6. CONTRACTOR</b> <i>(Include Commercial and Government Entity (CAGE) Code)</i>  |   |   |  |   |                 |   |     |    |  |     |    |   |          |  |   |  |          |                    |  |          |                                      |  |          |   |  |          |   |          |  |                             |  |          |  |  |          |                             |  |  |                          |  |          |   |  |          |   |  |          |             |  |          |  |  |          |                               |  |          |                             |          |  |                     |  |          |                              |  |          |                                   |  |          |  |  |          |                                      |  |          |   |  |          |                                      |  |          |                           |          |  |                           |  |  |                         |  |  |
| a. NAME, ADDRESS, AND ZIP CODE  |   | b. CAGE CODE                                      | c. COGNIZANT SECURITY OFFICE <i>(Name, Address, and Zip Code)</i>  |   |                 |   |     |    |  |     |    |   |          |  |   |  |          |                    |  |          |                                      |  |          |   |  |          |   |          |  |                             |  |          |  |  |          |                             |  |  |                          |  |          |   |  |          |   |  |          |             |  |          |  |  |          |                               |  |          |                             |          |  |                     |  |          |                              |  |          |                                   |  |          |  |  |          |                                      |  |          |   |  |          |                                      |  |          |                           |          |  |                           |  |  |                         |  |  |
| FOR RFP PURPOSES ONLY, NOT VALID FOR ACTUAL CONTRACT AWARD.   |   |   | N/A  |   |                 |   |     |    |  |     |    |   |          |  |   |  |          |                    |  |          |                                      |  |          |   |  |          |   |          |  |                             |  |          |  |  |          |                             |  |  |                          |  |          |   |  |          |   |  |          |             |  |          |  |  |          |                               |  |          |                             |          |  |                     |  |          |                              |  |          |                                   |  |          |  |  |          |                                      |  |          |   |  |          |                                      |  |          |                           |          |  |                           |  |  |                         |  |  |
| <b>7. SUBCONTRACTOR</b>   |   |   |  |   |                 |   |     |    |  |     |    |   |          |  |   |  |          |                    |  |          |                                      |  |          |   |  |          |   |          |  |                             |  |          |  |  |          |                             |  |  |                          |  |          |   |  |          |   |  |          |             |  |          |  |  |          |                               |  |          |                             |          |  |                     |  |          |                              |  |          |                                   |  |          |  |  |          |                                      |  |          |   |  |          |                                      |  |          |                           |          |  |                           |  |  |                         |  |  |
| a. NAME, ADDRESS, AND ZIP CODE  |   | b. CAGE CODE                                      | c. COGNIZANT SECURITY OFFICE <i>(Name, Address, and Zip Code)</i>  |   |                 |   |     |    |  |     |    |   |          |  |   |  |          |                    |  |          |                                      |  |          |   |  |          |   |          |  |                             |  |          |  |  |          |                             |  |  |                          |  |          |   |  |          |   |  |          |             |  |          |  |  |          |                               |  |          |                             |          |  |                     |  |          |                              |  |          |                                   |  |          |  |  |          |                                      |  |          |   |  |          |                                      |  |          |                           |          |  |                           |  |  |                         |  |  |
| N/A   |   |   | N/A  |   |                 |   |     |    |  |     |    |   |          |  |   |  |          |                    |  |          |                                      |  |          |   |  |          |   |          |  |                             |  |          |  |  |          |                             |  |  |                          |  |          |   |  |          |   |  |          |             |  |          |  |  |          |                               |  |          |                             |          |  |                     |  |          |                              |  |          |                                   |  |          |  |  |          |                                      |  |          |   |  |          |                                      |  |          |                           |          |  |                           |  |  |                         |  |  |
| <b>8. ACTUAL PERFORMANCE</b>  |   |   |  |   |                 |   |     |    |  |     |    |   |          |  |   |  |          |                    |  |          |                                      |  |          |   |  |          |   |          |  |                             |  |          |  |  |          |                             |  |  |                          |  |          |   |  |          |   |  |          |             |  |          |  |  |          |                               |  |          |                             |          |  |                     |  |          |                              |  |          |                                   |  |          |  |  |          |                                      |  |          |   |  |          |                                      |  |          |                           |          |  |                           |  |  |                         |  |  |
| a. LOCATION   |   | b. CAGE CODE                                      | c. COGNIZANT SECURITY OFFICE <i>(Name, Address, and Zip Code)</i>  |   |                 |   |     |    |  |     |    |   |          |  |   |  |          |                    |  |          |                                      |  |          |   |  |          |   |          |  |                             |  |          |  |  |          |                             |  |  |                          |  |          |   |  |          |   |  |          |             |  |          |  |  |          |                               |  |          |                             |          |  |                     |  |          |                              |  |          |                                   |  |          |  |  |          |                                      |  |          |   |  |          |                                      |  |          |                           |          |  |                           |  |  |                         |  |  |
| N/A   |   |   | N/A  |   |                 |   |     |    |  |     |    |   |          |  |   |  |          |                    |  |          |                                      |  |          |   |  |          |   |          |  |                             |  |          |  |  |          |                             |  |  |                          |  |          |   |  |          |   |  |          |             |  |          |  |  |          |                               |  |          |                             |          |  |                     |  |          |                              |  |          |                                   |  |          |  |  |          |                                      |  |          |   |  |          |                                      |  |          |                           |          |  |                           |  |  |                         |  |  |
| <b>9. GENERAL IDENTIFICATION OF THIS PROCUREMENT</b><br><br>SYSTEMS ENGINEERING ANALYSIS & TECHNICAL SUPPORT FOR AEROSPACE-MILITARY SYSTEMS TASKS.  |   |   |  |   |                 |   |     |    |  |     |    |   |          |  |   |  |          |                    |  |          |                                      |  |          |   |  |          |   |          |  |                             |  |          |  |  |          |                             |  |  |                          |  |          |   |  |          |   |  |          |             |  |          |  |  |          |                               |  |          |                             |          |  |                     |  |          |                              |  |          |                                   |  |          |  |  |          |                                      |  |          |   |  |          |                                      |  |          |                           |          |  |                           |  |  |                         |  |  |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;"><b>10. CONTRACTOR WILL REQUIRE ACCESS TO:</b></td> <td style="width: 5%;">YES</td> <td style="width: 5%;">NO</td> <td style="width: 40%;"><b>11. IN PERFORMING THIS CONTRACT, THE CONTRACTOR WILL:</b></td> <td style="width: 5%;">YES</td> <td style="width: 5%;">NO</td> </tr> <tr> <td>a. COMMUNICATIONS SECURITY (COMSEC) INFORMATION</td> <td style="text-align: center;"><b>X</b></td> <td></td> <td>a. HAVE ACCESS TO CLASSIFIED INFORMATION ONLY AT ANOTHER CONTRACTOR'S FACILITY OR A GOVERNMENT ACTIVITY</td> <td></td> <td style="text-align: center;"><b>X</b></td> </tr> <tr> <td>b. RESTRICTED DATA</td> <td></td> <td style="text-align: center;"><b>X</b></td> <td>b. RECEIVE CLASSIFIED DOCUMENTS ONLY</td> <td></td> <td style="text-align: center;"><b>X</b></td> </tr> <tr> <td>c. CRITICAL NUCLEAR WEAPON DESIGN INFORMATION</td> <td></td> <td style="text-align: center;"><b>X</b></td> <td>c. RECEIVE AND GENERATE CLASSIFIED MATERIAL</td> <td style="text-align: center;"><b>X</b></td> <td></td> </tr> <tr> <td>d. FORMERLY RESTRICTED DATA</td> <td></td> <td style="text-align: center;"><b>X</b></td> <td>d. FABRICATE, MODIFY, OR STORE CLASSIFIED HARDWARE</td> <td></td> <td style="text-align: center;"><b>X</b></td> </tr> <tr> <td>e. INTELLIGENCE INFORMATION</td> <td></td> <td></td> <td>e. PERFORM SERVICES ONLY</td> <td></td> <td style="text-align: center;"><b>X</b></td> </tr> <tr> <td>(1) Sensitive Compartmented Information (SCI)</td> <td></td> <td style="text-align: center;"><b>X</b></td> <td>f. HAVE ACCESS TO U.S. CLASSIFIED INFORMATION OUTSIDE THE U.S., PUERTO RICO, U.S. POSSESSIONS AND TRUST TERRITORIES</td> <td></td> <td style="text-align: center;"><b>X</b></td> </tr> <tr> <td>(2) Non-SCI</td> <td></td> <td style="text-align: center;"><b>X</b></td> <td>g. BE AUTHORIZED TO USE THE SERVICES OF DEFENSE TECHNICAL INFORMATION CENTER (DTIC) OR OTHER SECONDARY DISTRIBUTION CENTER</td> <td></td> <td style="text-align: center;"><b>X</b></td> </tr> <tr> <td>f. SPECIAL ACCESS INFORMATION</td> <td></td> <td style="text-align: center;"><b>X</b></td> <td>h. REQUIRE A COMSEC ACCOUNT</td> <td style="text-align: center;"><b>X</b></td> <td></td> </tr> <tr> <td>g. NATO INFORMATION</td> <td></td> <td style="text-align: center;"><b>X</b></td> <td>i. HAVE TEMPEST REQUIREMENTS</td> <td></td> <td style="text-align: center;"><b>X</b></td> </tr> <tr> <td>h. FOREIGN GOVERNMENT INFORMATION</td> <td></td> <td style="text-align: center;"><b>X</b></td> <td>j. HAVE OPERATIONS SECURITY (OPSEC) REQUIREMENTS</td> <td></td> <td style="text-align: center;"><b>X</b></td> </tr> <tr> <td>i. LIMITED DISSEMINATION INFORMATION</td> <td></td> <td style="text-align: center;"><b>X</b></td> <td>k. BE AUTHORIZED TO USE THE DEFENSE COURIER SERVICE</td> <td></td> <td style="text-align: center;"><b>X</b></td> </tr> <tr> <td>j. FOR OFFICIAL USE ONLY INFORMATION</td> <td></td> <td style="text-align: center;"><b>X</b></td> <td>l. OTHER <i>(Specify)</i></td> <td style="text-align: center;"><b>X</b></td> <td></td> </tr> <tr> <td>k. OTHER <i>(Specify)</i></td> <td></td> <td></td> <td>SECURE VOICE CAPABILITY</td> <td></td> <td></td> </tr> </table> |   |   |  |   |                 | <b>10. CONTRACTOR WILL REQUIRE ACCESS TO:</b> | YES | NO | <b>11. IN PERFORMING THIS CONTRACT, THE CONTRACTOR WILL:</b> | YES | NO | a. COMMUNICATIONS SECURITY (COMSEC) INFORMATION | <b>X</b> |  | a. HAVE ACCESS TO CLASSIFIED INFORMATION ONLY AT ANOTHER CONTRACTOR'S FACILITY OR A GOVERNMENT ACTIVITY |  | <b>X</b> | b. RESTRICTED DATA |  | <b>X</b> | b. RECEIVE CLASSIFIED DOCUMENTS ONLY |  | <b>X</b> | c. CRITICAL NUCLEAR WEAPON DESIGN INFORMATION |  | <b>X</b> | c. RECEIVE AND GENERATE CLASSIFIED MATERIAL | <b>X</b> |  | d. FORMERLY RESTRICTED DATA |  | <b>X</b> | d. FABRICATE, MODIFY, OR STORE CLASSIFIED HARDWARE |  | <b>X</b> | e. INTELLIGENCE INFORMATION |  |  | e. PERFORM SERVICES ONLY |  | <b>X</b> | (1) Sensitive Compartmented Information (SCI) |  | <b>X</b> | f. HAVE ACCESS TO U.S. CLASSIFIED INFORMATION OUTSIDE THE U.S., PUERTO RICO, U.S. POSSESSIONS AND TRUST TERRITORIES |  | <b>X</b> | (2) Non-SCI |  | <b>X</b> | g. BE AUTHORIZED TO USE THE SERVICES OF DEFENSE TECHNICAL INFORMATION CENTER (DTIC) OR OTHER SECONDARY DISTRIBUTION CENTER |  | <b>X</b> | f. SPECIAL ACCESS INFORMATION |  | <b>X</b> | h. REQUIRE A COMSEC ACCOUNT | <b>X</b> |  | g. NATO INFORMATION |  | <b>X</b> | i. HAVE TEMPEST REQUIREMENTS |  | <b>X</b> | h. FOREIGN GOVERNMENT INFORMATION |  | <b>X</b> | j. HAVE OPERATIONS SECURITY (OPSEC) REQUIREMENTS |  | <b>X</b> | i. LIMITED DISSEMINATION INFORMATION |  | <b>X</b> | k. BE AUTHORIZED TO USE THE DEFENSE COURIER SERVICE |  | <b>X</b> | j. FOR OFFICIAL USE ONLY INFORMATION |  | <b>X</b> | l. OTHER <i>(Specify)</i> | <b>X</b> |  | k. OTHER <i>(Specify)</i> |  |  | SECURE VOICE CAPABILITY |  |  |
| <b>10. CONTRACTOR WILL REQUIRE ACCESS TO:</b>   | YES   | NO  | <b>11. IN PERFORMING THIS CONTRACT, THE CONTRACTOR WILL:</b>   | YES   | NO              |   |     |    |  |     |    |   |          |  |   |  |          |                    |  |          |                                      |  |          |   |  |          |   |          |  |                             |  |          |  |  |          |                             |  |  |                          |  |          |   |  |          |   |  |          |             |  |          |  |  |          |                               |  |          |                             |          |  |                     |  |          |                              |  |          |                                   |  |          |  |  |          |                                      |  |          |   |  |          |                                      |  |          |                           |          |  |                           |  |  |                         |  |  |
| a. COMMUNICATIONS SECURITY (COMSEC) INFORMATION   | <b>X</b>                                      |   | a. HAVE ACCESS TO CLASSIFIED INFORMATION ONLY AT ANOTHER CONTRACTOR'S FACILITY OR A GOVERNMENT ACTIVITY                    |   | <b>X</b>        |   |     |    |  |     |    |   |          |  |   |  |          |                    |  |          |                                      |  |          |   |  |          |   |          |  |                             |  |          |  |  |          |                             |  |  |                          |  |          |   |  |          |   |  |          |             |  |          |  |  |          |                               |  |          |                             |          |  |                     |  |          |                              |  |          |                                   |  |          |  |  |          |                                      |  |          |   |  |          |                                      |  |          |                           |          |  |                           |  |  |                         |  |  |
| b. RESTRICTED DATA  |   | <b>X</b>  | b. RECEIVE CLASSIFIED DOCUMENTS ONLY   |   | <b>X</b>        |   |     |    |  |     |    |   |          |  |   |  |          |                    |  |          |                                      |  |          |   |  |          |   |          |  |                             |  |          |  |  |          |                             |  |  |                          |  |          |   |  |          |   |  |          |             |  |          |  |  |          |                               |  |          |                             |          |  |                     |  |          |                              |  |          |                                   |  |          |  |  |          |                                      |  |          |   |  |          |                                      |  |          |                           |          |  |                           |  |  |                         |  |  |
| c. CRITICAL NUCLEAR WEAPON DESIGN INFORMATION   |   | <b>X</b>  | c. RECEIVE AND GENERATE CLASSIFIED MATERIAL  | <b>X</b>  |                 |   |     |    |  |     |    |   |          |  |   |  |          |                    |  |          |                                      |  |          |   |  |          |   |          |  |                             |  |          |  |  |          |                             |  |  |                          |  |          |   |  |          |   |  |          |             |  |          |  |  |          |                               |  |          |                             |          |  |                     |  |          |                              |  |          |                                   |  |          |  |  |          |                                      |  |          |   |  |          |                                      |  |          |                           |          |  |                           |  |  |                         |  |  |
| d. FORMERLY RESTRICTED DATA   |   | <b>X</b>  | d. FABRICATE, MODIFY, OR STORE CLASSIFIED HARDWARE   |   | <b>X</b>        |   |     |    |  |     |    |   |          |  |   |  |          |                    |  |          |                                      |  |          |   |  |          |   |          |  |                             |  |          |  |  |          |                             |  |  |                          |  |          |   |  |          |   |  |          |             |  |          |  |  |          |                               |  |          |                             |          |  |                     |  |          |                              |  |          |                                   |  |          |  |  |          |                                      |  |          |   |  |          |                                      |  |          |                           |          |  |                           |  |  |                         |  |  |
| e. INTELLIGENCE INFORMATION   |   |   | e. PERFORM SERVICES ONLY   |   | <b>X</b>        |   |     |    |  |     |    |   |          |  |   |  |          |                    |  |          |                                      |  |          |   |  |          |   |          |  |                             |  |          |  |  |          |                             |  |  |                          |  |          |   |  |          |   |  |          |             |  |          |  |  |          |                               |  |          |                             |          |  |                     |  |          |                              |  |          |                                   |  |          |  |  |          |                                      |  |          |   |  |          |                                      |  |          |                           |          |  |                           |  |  |                         |  |  |
| (1) Sensitive Compartmented Information (SCI)   |   | <b>X</b>  | f. HAVE ACCESS TO U.S. CLASSIFIED INFORMATION OUTSIDE THE U.S., PUERTO RICO, U.S. POSSESSIONS AND TRUST TERRITORIES        |   | <b>X</b>        |   |     |    |  |     |    |   |          |  |   |  |          |                    |  |          |                                      |  |          |   |  |          |   |          |  |                             |  |          |  |  |          |                             |  |  |                          |  |          |   |  |          |   |  |          |             |  |          |  |  |          |                               |  |          |                             |          |  |                     |  |          |                              |  |          |                                   |  |          |  |  |          |                                      |  |          |   |  |          |                                      |  |          |                           |          |  |                           |  |  |                         |  |  |
| (2) Non-SCI   |   | <b>X</b>  | g. BE AUTHORIZED TO USE THE SERVICES OF DEFENSE TECHNICAL INFORMATION CENTER (DTIC) OR OTHER SECONDARY DISTRIBUTION CENTER |   | <b>X</b>        |   |     |    |  |     |    |   |          |  |   |  |          |                    |  |          |                                      |  |          |   |  |          |   |          |  |                             |  |          |  |  |          |                             |  |  |                          |  |          |   |  |          |   |  |          |             |  |          |  |  |          |                               |  |          |                             |          |  |                     |  |          |                              |  |          |                                   |  |          |  |  |          |                                      |  |          |   |  |          |                                      |  |          |                           |          |  |                           |  |  |                         |  |  |
| f. SPECIAL ACCESS INFORMATION   |   | <b>X</b>  | h. REQUIRE A COMSEC ACCOUNT  | <b>X</b>  |                 |   |     |    |  |     |    |   |          |  |   |  |          |                    |  |          |                                      |  |          |   |  |          |   |          |  |                             |  |          |  |  |          |                             |  |  |                          |  |          |   |  |          |   |  |          |             |  |          |  |  |          |                               |  |          |                             |          |  |                     |  |          |                              |  |          |                                   |  |          |  |  |          |                                      |  |          |   |  |          |                                      |  |          |                           |          |  |                           |  |  |                         |  |  |
| g. NATO INFORMATION   |   | <b>X</b>  | i. HAVE TEMPEST REQUIREMENTS   |   | <b>X</b>        |   |     |    |  |     |    |   |          |  |   |  |          |                    |  |          |                                      |  |          |   |  |          |   |          |  |                             |  |          |  |  |          |                             |  |  |                          |  |          |   |  |          |   |  |          |             |  |          |  |  |          |                               |  |          |                             |          |  |                     |  |          |                              |  |          |                                   |  |          |  |  |          |                                      |  |          |   |  |          |                                      |  |          |                           |          |  |                           |  |  |                         |  |  |
| h. FOREIGN GOVERNMENT INFORMATION   |   | <b>X</b>  | j. HAVE OPERATIONS SECURITY (OPSEC) REQUIREMENTS   |   | <b>X</b>        |   |     |    |  |     |    |   |          |  |   |  |          |                    |  |          |                                      |  |          |   |  |          |   |          |  |                             |  |          |  |  |          |                             |  |  |                          |  |          |   |  |          |   |  |          |             |  |          |  |  |          |                               |  |          |                             |          |  |                     |  |          |                              |  |          |                                   |  |          |  |  |          |                                      |  |          |   |  |          |                                      |  |          |                           |          |  |                           |  |  |                         |  |  |
| i. LIMITED DISSEMINATION INFORMATION  |   | <b>X</b>  | k. BE AUTHORIZED TO USE THE DEFENSE COURIER SERVICE  |   | <b>X</b>        |   |     |    |  |     |    |   |          |  |   |  |          |                    |  |          |                                      |  |          |   |  |          |   |          |  |                             |  |          |  |  |          |                             |  |  |                          |  |          |   |  |          |   |  |          |             |  |          |  |  |          |                               |  |          |                             |          |  |                     |  |          |                              |  |          |                                   |  |          |  |  |          |                                      |  |          |   |  |          |                                      |  |          |                           |          |  |                           |  |  |                         |  |  |
| j. FOR OFFICIAL USE ONLY INFORMATION  |   | <b>X</b>  | l. OTHER <i>(Specify)</i>  | <b>X</b>  |                 |   |     |    |  |     |    |   |          |  |   |  |          |                    |  |          |                                      |  |          |   |  |          |   |          |  |                             |  |          |  |  |          |                             |  |  |                          |  |          |   |  |          |   |  |          |             |  |          |  |  |          |                               |  |          |                             |          |  |                     |  |          |                              |  |          |                                   |  |          |  |  |          |                                      |  |          |   |  |          |                                      |  |          |                           |          |  |                           |  |  |                         |  |  |
| k. OTHER <i>(Specify)</i>   |   |   | SECURE VOICE CAPABILITY  |   |                 |   |     |    |  |     |    |   |          |  |   |  |          |                    |  |          |                                      |  |          |   |  |          |   |          |  |                             |  |          |  |  |          |                             |  |  |                          |  |          |   |  |          |   |  |          |             |  |          |  |  |          |                               |  |          |                             |          |  |                     |  |          |                              |  |          |                                   |  |          |  |  |          |                                      |  |          |   |  |          |                                      |  |          |                           |          |  |                           |  |  |                         |  |  |

12. **PUBLIC RELEASE.** Any information (*classified or unclassified*) pertaining to this contract shall not be released for public dissemination except as provided by the Industrial Security Manual or unless it has been approved for public release by appropriate U.S. Government authority. Proposed public releases shall be submitted for approval prior to release ☐ Direct ☒ Through (*Specify*)

COMMANDING OFFICER, NAVAL RESEARCH LABORATORY, WASHINGTON, DC 20375-5320, CODE 8132.

to the Directorate for Freedom of Information and Security Review, Office of the Assistant Secretary of Defense (Public Affairs)\* for review.  
\*In the case of non-DoD User Agencies, requests for disclosure shall be submitted to that agency.

13. **SECURITY GUIDANCE.** The security classification guidance needed for this classified effort is identified below. If any difficulty is encountered in applying this guidance or if any other contributing factor indicates a need for changes in this guidance, the contractor is authorized and encouraged to provide recommended changes; to challenge the guidance or the classification assigned to any information or material furnished or generated under this contract; and to submit any questions for interpretation of this guidance to the official identified below. Pending final decision, the information involved shall be handled and protected at the highest level of classification assigned or recommended. (*Fill in as appropriate for the classified effort. Attach, or forward under separate correspondence, any documents/guides/extracts referenced herein. Add additional pages as needed to provide complete guidance.*)

Access to classified information is not required for the purpose of submitting a bid/proposal for this statement of work. However, prior to award of contract, the successful contractor will be required to have a SECRET facility clearance, SECRET storage capabilities, and personnel available with DoD granted personnel security clearances commensurate with level of access required for performance of contract.

14. **ADDITIONAL SECURITY REQUIREMENTS.** Requirements, in addition to ISM requirements, are established for this contract. ☐ Yes ☒ No  
(*If Yes, identify the pertinent contractual clauses in the contract document itself, or provide an appropriate statement which identifies the additional requirements. Provide a copy of the requirements to the cognizant security office. Use Item 13 if additional space is needed.*)

15. **INSPECTIONS.** Elements of this contract are outside the inspection responsibility of the cognizant security office. ☐ Yes ☒ No  
(*If Yes, explain and identify specific areas or elements carved out and the activity responsible for inspections. Use Item 13 if additional space is needed.*)

16. **CERTIFICATION AND SIGNATURE.** Security requirements stated herein are complete and adequate for safeguarding the classified information to be released or generated under this classified effort. All questions shall be referred to the official named below.

a. TYPED NAME OF CERTIFYING OFFICIAL  
TINA SMALLWOOD

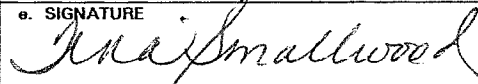
b. TITLE  
CONTRACTING OFFICER, SECURITY

c. TELEPHONE (*Include Area Code*)  
(202)767-2240/2521

d. ADDRESS (*Include Zip Code*)

NAVAL RESEARCH LABORATORY  
4555 OVERLOOKA AVE., SW  
WASHINGTON, DC 20375-5320

e. SIGNATURE



17. **REQUIRED DISTRIBUTION**

- ☒ a. CONTRACTOR  
☐ b. SUBCONTRACTOR  
☒ c. COGNIZANT SECURITY OFFICE FOR PRIME AND SUBCONTRACTOR  
☐ d. U.S. ACTIVITY RESPONSIBLE FOR OVERSEAS SECURITY ADMINISTRATION  
☐ e. ADMINISTRATIVE CONTRACTING OFFICER  
☒ f. OTHERS AS NECESSARY 1221.1, 8132, 8102